



CITY OF SOMERVILLE

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With Mayor's Inaugural Address
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INAUGURAL ADDRESS

DELIVERED BY

HON. LEONARD B. CHANDLER, MAYOR,

MONDAY, JANUARY 4, 1904.

GENTLEMEN OF THE BOARD OF ALDERMEN:—

By a provision of the city charter, it becomes the duty of the mayor on this occasion to address your board, and, through you, the citizens of Somerville, upon the condition of the various departments of the city, and to make such recommendations as he may deem proper. A newly-elected mayor is personally unfamiliar with the needs of the different departments, and therefore I have deemed it advisable at this time to make only such recommendations as appear to me to be absolutely necessary.

Gentlemen, I am confident that this day we assume the duties of the respective positions to which our fellow-citizens have chosen us with a clear realization of the responsibility that rests upon us, and with the single desire to discharge those duties to the best of our ability. Personally, I begin my term as mayor of Somerville untrammelled by pledges or promises of any kind, with no personal ambition to gratify, and with the firm determination to do all in my power to advance the interests of our municipality. I thoroughly believe that every member of your honorable board has the same intention, and by working harmoniously together, as I have no doubt we shall do, we shall be able to accomplish much that will redound to the credit and advantage of Somerville.

Finance.

The chief problem confronting every municipality is that of finance. To successfully solve this problem taxes to the utmost the administrative capacity of every city government. It is necessary for us to meet the increasing needs of our growing municipality without laying too heavy a burden of taxation upon

our citizens; to meet all immediate and indispensable demands upon our treasury, and yet to observe a wise economy. For the past few years there has been a gradual increase in our tax rate, until last year it reached the rate of \$17.20 per \$1,000, which appears to me to be somewhat higher than it ought to be. Therefore, I strongly recommend that an effort be made to retrench expenditures so far as is practicable without impairing the efficiency of any of the city departments.

Funded Debt.

The total funded debt of the city January 1, 1903, was \$1,477,000. This debt was increased during the year \$197,500. It was decreased \$169,000, leaving the net funded debt January 1, 1904, \$1,505,500, a net increase of \$28,500.

Taxable Property.

The total amount of taxable property is \$57,062,000, of which \$51,296,100 is real estate, and \$5,765,900 is personal estate, including non-resident bank shares. At a rate of \$17.20 on each \$1,000 of valuation, the tax is \$981,466.40. There are 18,381 polls at \$2.00, making \$36,762. We received from street watering \$20,621.44, making the total tax levy \$1,038,849.84. The total number of persons assessed, resident and non-resident, was 25,049.

Of the amount received in taxes, \$170,000 is required for the debt provisions; \$151,414.63 are state and county taxes, metropolitan sewer, etc., matters over which the city has no control; \$341,930 is used for current expenses of departments, over which the board of aldermen has no control; \$318,121.77 is the amount for current expenses within control of the board of aldermen. The same statement, based upon the \$17.20 per thousand, is as follows: Of each \$17.20, \$2.65 is for state, county and metropolitan taxes; \$2.98 for debt requirements; \$5.99 for current expenses, over which the board of aldermen has no control; \$5.58, current expenses within control of the board of aldermen.

In addition to the amount received from taxes, there was available last year the sum of \$225,615.36 on water income account; we received \$32,065.33 from corporation and bank taxes; from the clerk of the courts, \$5,239; from the county treas-

urer for dog licenses, \$3,393.02; from the state, the street railway tax, \$47,392.51; and from the Boston Elevated Railway tax, \$7,744.52; a total of \$321,449.74, making the total amount available from taxes and from other sources \$1,360,299.58.

The estimated borrowing capacity of the city January 1, 1904, was \$96,500. By the first of October this will be increased \$114,500, making a total borrowing capacity of \$211,000.

The City's Finances.

Funded Debt.—The funded debt of the city January 1, 1903, was as follows:—

Funded Debt, City Loan	\$1,066,000 00
Funded Debt, Sewer Loan	188,000 00
Funded Debt, Paving Loan	50,000 00
Funded Debt, Water Loan	146,000 00
Funded Debt, Metropolitan Park Assessment Loan	27,000 00
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	\$1,477,000 00

The debt was increased during the year by appropriations made by the board of aldermen as follows:—

Public Buildings Construction:—	
Bingham Schoolhouse Addition . . .	\$34,500 00
Historical Building and Observatory on Prospect Hill	7,000 00
Engine House in Ward Two	43,000 00
Martha Perry Lowe School	18,000 00
Public Grounds:—	
Completion of Prospect Hill Park . .	1,000 00
Improvement of Playground, Poplar, corner of Joy Street	250 00
Highways:—	
Construction	15,000 00
Paved Gutters and Crossings	20,600 00
Thorndike-street Subway	3,800 00
Sidewalks Construction	11,350 00
Sewers Construction	25,000 00
Renewal of Funded Debt	18,000 00
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Amount borrowed during the year . .	\$197,500 00

The debt was reduced during the year by payments as follows:—

Funded Debt, City Loan	\$130,000 00
Funded Debt, Sewer Loan	10,000 00
Funded Debt, Paving Loan	5,000 00
Funded Debt, Water Loan	23,000 00
Funded Debt, Metropolitan Park Assessment Loan	1,000 00
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Amount paid during the year	\$169,000 00

Leaving the funded debt of the city January 1, 1904, \$1,505,500 (an increase of \$28,500 from the previous year), classified as follows:—

City Loan bonds bearing interest at 3½ per cent.	\$329,000 00
City Loan bonds bearing interest at 4 per cent.	779,500 00
City Loan Sewer bonds bearing interest at 3½ per cent.	52,000 00
City Loan Sewer bonds bearing interest at 4 per cent.	143,000 00
City Loan Sewer bonds bearing interest at 4½ per cent.	8,000 00
City Loan Paving bonds bearing interest at 4 per cent.	45,000 00
Water Loan bonds bearing interest at 4 per cent.	113,000 00
Water Loan bonds bearing interest at 5½ per cent.	10,000 00
Metropolitan Park Assessment Loan bonds bearing interest at 3½ per cent.	26,000 00
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Total Funded Debt January 1, 1904	\$1,505,500 00

The foregoing amount represents the net indebtedness of the city, the unfunded liabilities for the temporary loans, etc., being equalled by its assets, which consist of uncollected taxes, sewer and sidewalk assessments, etc.

Taxes.—The assessors' warrant for the tax levy assessed upon the polls and estates of the inhabitants, as of May 1, 1903, was duly submitted to the collector.

The total amount of taxable property was \$57,062,000, and the rate established was \$17.20 on each \$1,000 valuation, as follows:—

Real estate, valuation	\$51,296,100 00
Personal estate, valuation	5,685,260 00
Non-resident bank shares	80,640 00
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Total valuation	\$57,062,000 00

At a rate of \$17.20 on each \$1,000 valuation	\$981,466 40
Polls, 18,381 at \$2	36,762 00
Street watering	20,621 44
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Total amount of tax levy	\$1,038,849 84
Total number of persons assessed, resident and non-resident, 25,049.	

Appropriations.—The amount of revenue provided by the tax levy may properly be classified as follows:—

	Rates assessed on \$1,000 valuation.	Amount.
For current expenses within the control of the board of aldermen	\$5 58	\$318,121 77
Current expenses of departments over which the board of aldermen has no control	5 99	341,930 00
Debt requirements	2 98	170,000 00
State and county taxes, metropolitan sewer and park assessments, national bank tax, and Overlay account	2 65	151,414 63
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For total amount on a valuation of \$57,062,000 at \$17.20		\$981,466 40
Poll taxes assessed, credited to state and county		36,762 00
Street watering, in excess of amount appropriated		20,621 44
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Total amount of tax levy		\$1,038,849 84

The appropriations to the various accounts were as follows:—

ACCOUNTS WITHIN THE CONTROL OF THE BOARD OF ALDERMEN.

Assessors	\$10,075 00
City Auditor	725 00
City Clerk	6,350 00
City Engineer	11,900 00
City Messenger	2,000 00
City Solicitor	2,300 00
City Treasurer	9,000 00
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Amount carried forward	\$42,350 00

Amount brought forward	\$42,350 00
Clerk of Committees and Departments	4,200 00
Contingent Fund	3,800 00
Election Expenses:—	
City Clerk	750 00
Commissioner of Public Buildings	1,000 00
Pay of Election Officers	1,700 00
Registrars of Voters	1,600 00
Excess and Deficiency	2,101 77
Electrical Department	7,000 00
Executive Department	3,900 00
Fire Department	35,000 00
Highways:—	
Maintenance	2,100 00
Removing Brown-tail Moths	3,000 00
Watering Streets	1,000 00
Inspection of Buildings	4,100 00
Military Aid	500 00
Police	31,000 00
Printing and Stationery	2,500 00
Public Buildings Maintenance:—	
City Hall	3,800 00
City Hall Annex	800 00
Fire Department	4,400 00
Health Department	250 00
Highways	200 00
Police	2,600 00
Public Grounds	75 00
Public Library	3,800 00
Schoolhouses	51,170 00
Sewer Department	125 00
Support of Poor	600 00
Water Department	100 00
Public Grounds	10,500 00
Sealer of Weights and Measures	1,200 00
Sidewalks Maintenance	6,000 00
Soldiers' Relief	16,000 00
Somerville Hospital	5,000 00
Street Lights	63,900 00

Total amount assessed on a valuation
of \$57,062,000, at \$5.58 \$318,121 77

ACCOUNTS OVER WHICH THE BOARD OF ALDERMEN HAS NO CONTROL.

Health Department	\$39,000 00
Public Library	14,800 00
School Contingent	24,000 00
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Amount carried forward	\$77,800 00

Amount brought forward	\$77,800 00
School Teachers' Salaries	238,000 00
Support of Poor, City Home	4,500 00
Support of Poor, Miscellaneous	21,630 00

Total amount assessed on a valuation
of \$57,062,000, at \$5.99 \$341,930 00

ACCOUNTS PROVIDING FOR DEBT REQUIREMENTS.

Interest	\$52,000 00
Reduction of Funded Debt	118,000 00

Total amount assessed on a valuation
of \$57,062,000, at \$2.98 \$170,000 00

PROVIDING FOR STATE AND COUNTY TAXES, ETC.

State Tax	\$43,750 00	
Deduct one-half of poll taxes	18,381 00	
		\$25,369 00
County Tax	\$57,308 97	
Deduct one-half of poll taxes	18,381 00	
		38,927 97
Metropolitan Sewer Assessment	46,588 33	
Metropolitan Park Assessment	21,809 23	
National Bank Tax	1,387 01	
Overlay and Abatement	13,468 06	
Armory Tax	3,865 03	

Total amount assessed on a valuation
of \$57,062,000, at \$2.65 \$151,414 63

In addition to the above, the following appropriations were made from the various income accounts:—

From the Income of the Water Works:—

Water Maintenance	\$39,076 31
Water Loan Interest	5,610 00
Water Works Extension	11,530 00
Water Works, Abatements on Water Charges	1,137 84
Interest on Sewer Loan Bonds	7,120 00
Sewers Maintenance	12,300 00
Fire Department	31,000 00
Reduction of Funded Debt, Sewer Loan Bonds	10,000 00
Reduction of Funded Debt, Water Loan Bonds	23,000 00
Reduction of Funded Debt	7,552 78
Metropolitan Water Assessment	77,288 43
Total	\$225,615 36

From the Income from the State and County:—

Police, the amount received from the state for corporation and bank taxes . . .	\$32,065 33
Police, the amount received from the clerk of the courts for fines, costs, etc. . .	5,239 00
Public Library, the amount received of the county for dog licenses . . .	3,393 02
Highways Maintenance, from Boston Elevated Railway tax	7,744 52
Highways Maintenance, from street rail- way tax	47,392 51
Total	<hr/> \$95,834 38
Total from water income and from state and county	<hr/> \$321,449 74 <hr/>

The aggregate appropriations from the tax levy and from income were as follows:—

From tax levy	\$1,038,849 84
From income	321,449 74
	<hr/> \$1,360,299 58

The following tables, giving a condensed history of the city's finances, are herewith presented for reference:—

YEAR.	Amount of Funded Debt.	Increase of Funded Debt.	Reduction of Funded Debt.	Tax Rate per \$1,000 Valuation on Account of Reduc- tion of Funded Debt.
Town	\$593,349	. . .	. . .	. . .
Dec. 31, 1872	643,354	\$50,005	. . .	. . .
" 1873	809,354	166,000	. . .	. . .
" 1874	1,419,854	610,500	. . .	. . .
" 1875	1,571,854	152,000	. . .	. . .
" 1876	1,606,854	45,000	*\$55,130 62	\$2 07
" 1877	1,606,854	10,000	*58,828 58	2 30
" 1878	1,596,854	. . .	61,004 64	2 91
" 1879	1,585,000	. . .	64,915 76	3 42
" 1880	1,585,000	. . .	55,739 35	2 72
" 1881	1,585,000	. . .	58,498 64	2 59
" 1882	1,585,000	. . .	61,390 59	2 65
" 1883	1,585,000	. . .	64,479 01	2 70
" 1884	1,585,000	. . .	67,719 33	2 78
" 1885	†1,525,000	. . .	71,305 66	2 87
" 1886	1,525,000	. . .	66,894 23	2 57
" 1887	1,525,000	. . .	70,252 88	2 56
" 1888	†860,500	25,000	37,000 00	1 28
" 1889	952,500	130,000	38,000 00	1 27
" 1890	1,057,500	150,000	45,000 00	1 38
" 1891	1,045,500	45,000	57,000 00	1 55
" 1892	1,194,500	253,000	104,000 00	2 73
" 1893	1,279,500	222,000	137,000 00	3 27
" 1894	1,344,500	172,000	107,000 00	2 42
" 1895	1,506,500	247,000	85,000 00	1 83
" 1896	1,531,000	177,000	152,500 00	3 11
" 1897	1,548,000	167,000	150,000 00	2 39
" 1898	1,552,000	176,000	172,000 00	3 99
" 1899	1,492,500	110,000	169,500 00	3 30
" 1900	1,478,000	152,000	166,500 00	3 17
" 1901	1,461,000	146,000	163,000 00	3 02
" 1902	1,477,000	175,000	159,000 00	2 86
" 1903	1,505,500	197,500	169,000 00	2 96

*\$10,000.00 applied to payment of bonds; balance to sinking funds.

†Sinking fund applied.

YEAR.	VALUATION.	TAX LEVY.	RATE.
1872 . . .	\$22,755,325 . . .	\$274,374 45 . . .	\$13 00
1873 . . .	29,643,100 . . .	389,214 48 . . .	12 80
1874 . . .	30,837,700 . . .	473,235 50 . . .	15 00
1875 . . .	31,317,000 . . .	518,161 40 . . .	16 20
1876 . . .	26,573,400 . . .	504,475 24 . . .	18 60
1877 . . .	25,479,400 . . .	471,789 14 . . .	18 10
1878 . . .	20,976,900 . . .	409,497 10 . . .	19 00
1879 . . .	18,950,100 . . .	352,553 80 . . .	18 00
1880 . . .	20,458,100 . . .	402,927 71 . . .	19 10
1881 . . .	22,569,100 . . .	452,945 45 . . .	19 50
1882 . . .	23,162,200 . . .	425,721 16 . . .	17 80
1883 . . .	23,812,900 . . .	411,645 43 . . .	16 70
1884 . . .	24,331,100 . . .	418,750 26 . . .	16 60
1885 . . .	24,878,400 . . .	428,605 44 . . .	16 60
1886 . . .	26,003,200 . . .	416,987 28 . . .	15 40
1887 . . .	27,471,800 . . .	424,309 14 . . .	14 80
1888 . . .	28,765,400 . . .	421,458 60 . . .	14 00
1889 . . .	30,004,600 . . .	440,324 40 . . .	14 00
1890 . . .	32,557,500 . . .	447,704 00 . . .	14 00
1891 . . .	36,843,400 . . .	539,137 10 . . .	14 00
1892 . . .	38,093,100 . . .	596,357 50 . . .	15 00
1893 . . .	41,873,600 . . .	675,886 80 . . .	15 50
1894 . . .	44,142,900 . . .	721,165 54 . . .	15 70
1895 . . .	46,506,300 . . .	745,609 02 . . .	15 40
1896 . . .	49,070,800 . . .	786,412 32 . . .	15 40
1897 . . .	50,231,000 . . .	913,574 42 . . .	17 30
1898 . . .	50,739,700 . . .	954,187 11 . . .	17 90
1899 . . .	51,262,400 . . .	882,580 96 . . .	16 30
1900 . . .	52,578,200 . . .	889,916 08 . . .	16 00
1901 . . .	53,924,200 . . .	907,439 82 . . .	15 90
1902 . . .	55,558,300 . . .	964,535 80 . . .	16 40
1903 . . .	57,062,000 . . .	1,038,849 84 . . .	17 20

Highway Department.

There is no other department with whose work the average citizen is brought so much in daily contact as with that of the highway department, and there is no department whose work the public observes with a more critical eye. The citizens of Somerville require that our highways and sidewalks be maintained at the highest possible degree of excellence, and that particular attention be given to those main thoroughfares over which the bulk of local and out-of-town travel passes. The past year has seen a great deal accomplished in this respect, but much remains to be done. Eight new streets have been accepted, increasing the mileage of our public streets to 67.1 miles, and reducing that of our private streets to 25.5 miles. Much construction and repairing has been done on our highways the past year, 17,744 tons of crushed stone having been used in this work, of which 16,440 tons were crushed by the stone crusher of the department, and the remainder purchased. Eighteen thousand two hundred seventy-three feet of edgestones and inside curbing have

been set, and 5,988 square yards of stone gutters and 548 square yards of vitrified brick, granolithic, granite and concrete crossings have been laid. Eleven thousand eight hundred ten feet, making over two miles, of edgestones have been reset, and 6,328 square yards of brick sidewalks relaid. Eighty square yards of crossings, driveways, sewer trenches, etc., have been paved or re-paved with granite blocks; 230 square yards of granite crossings surfaced with concrete; and thirty square yards of driveways paved or repaved with bricks. Seven thousand five hundred three square yards of brick and 215 square yards of granolithic sidewalks have been laid.

The new subway at Thorndike street has been completed, is open for traffic, and fills a long-felt want in that district.

Seventy-eight trees have been set out, and forty-two have been cut down during the year. The city is not yet free from the brown-tail and gypsy moths, although vigorous work has been done to rid the city of the pest. A careful inspection by the highway department has resulted in discovering that most of the remaining nests are on private property, very few being found on the trees on the highways. With the experienced force at the disposal of the highway department, it would seem to me to be to the advantage of the property owners to enlist the services of the department in cleaning their trees, as the work would doubtless be performed in a more economical and satisfactory manner than if done by the individual owners.

The condition in which streets are left after the work of laying water, sewer and gas pipes, replacing poles and laying underground wires, demands serious attention. Making water service and sewer connections and replacing pavements by unskilled workmen destroys the streets more than all the ordinary wear to which they are subjected. I would strongly recommend that the various departments and companies making such openings be obliged to do all work of this description under the supervision and to the satisfaction of the street commissioner, with the exception of repaving, which should be done by the highway department itself; the entire expense to be borne by said departments or companies.

Street Watering.

In the street watering the taxpayer seems to receive the quickest and most apparent return for his money. This work

not only keeps dust out of our residences, but it aids greatly in preserving our streets.

Bridges.

It gives me great pleasure to state that the Boston & Maine Railroad has completed the construction of highly acceptable bridges over its tracks at Sycamore and School streets, all the expense of construction being borne by the road.

A new bridge under construction by the metropolitan park commission, over the Mystic river, on the line of the Fellsway boulevard and Middlesex avenue, has been completed, though not yet open for traffic. The boulevard in Somerville, between this bridge and Mystic avenue, is to be widened.

Steps should immediately be taken to have the Boston & Maine Railroad replace the bridge they removed from Lowell street some years ago. Lowell street is now a most important cross-town thoroughfare, and it is of the utmost importance that this matter receive prompt attention.

Grade Crossings.

Petitions filed by the city are now pending in the superior court, for abolishing all the crossings on the Fitchburg division of the Boston & Maine Railroad, and are awaiting further action by the city government or by the railroads concerned. I believe that these crossings are a constant menace to the safety of our citizens, proof of which is almost daily furnished, and I would recommend that this matter be pressed without further delay.

Boulevards.

At the last session of the legislature, a bill was passed appropriating \$3,000,000 for parks and boulevards, to be expended under the direction of the metropolitan park commissioners. It appears to me that this is the proper time to urge upon the commissioners the construction of the boulevard through the cities of Somerville and Cambridge, connecting the Fells and Fenway, and to call their attention to the advisability of taking the banks of the Mystic river for park purposes. Both of these projects were favorably considered by the committee on met-

ropolitan affairs of the legislature of 1903, and would have been reported upon favorably but for the fact that it was deemed advisable to report a blanket bill placing the matter in the hands of the metropolitan park commissioners. To properly press this matter before the commissioners, I would recommend that a special committee of your honorable board be appointed, and as this seems to me to be a subject in which our citizens at large should take an active interest, it is my purpose at an early date to appoint a citizens' committee, to consist of twenty-five eminent citizens of Somerville, to co-operate with and aid your committee in this matter.

Health of the City.

We have every reason to be thankful for the healthfulness of our city during the past year. We have been entirely free from epidemics of all kinds, and have not had a single case of smallpox during the year. The record of the board of health for 1903 is, briefly, as follows:—

The number of permits issued to pedlers was 106; number of permits renewed to pedlers, 142.

Forty-three permits were issued to keep 112 cows, and four persons were refused permission to keep twenty-six cows. Seven permits were granted to keep eight goats, none being refused. Out of fourteen applications to keep twenty-nine swine, eleven permits were granted to keep twenty-two swine. Nineteen applications were received to collect grease, seventeen of which were granted, and seven applications were granted to carry on the business of melting and rendering. Sixteen undertakers have been licensed. Twenty-eight petitions were received for permission to erect stables, eleven of which were granted. Nine hundred sixty-four nuisances have been investigated, most of which have been abated. Forty-six cases of glanders have been reported, with the result that forty-four horses were killed and two released.

Contagious Diseases.

Number of cases of diphtheria reported, 183; deaths from same, seventeen. Number of cases of scarlet fever reported, 143; deaths from same, thirteen. Number of cases of typhoid fever reported, twenty-nine; deaths from same, ten.

Bacteriological Laboratory.

The wisdom of establishing a bacteriological laboratory at the city hall has been realized.

The number of diphtheria cultures received was 772, of which 174 were positive and 598 negative. One hundred thirty-four specimens of sputum were examined for tuberculosis, twenty-five of which proved positive and 109 negative. Seventy Widal tests were received for examination for typhoid fever, twenty-six of which were positive and forty-four negative.

Physicians can leave specimens at any hour during the day or night at the city hall and obtain their results the next morning.

Sanitary Conditions.

It is impossible to place too much importance upon perfecting the sanitary conditions of the city. It is imperative that our sewers and drains be absolutely perfect, and that every modern improvement be immediately utilized and taken advantage of. During the past year the sewer department has done important construction work, a brief outline of which follows.

An agreement has been executed with the owners of the property lying between Mystic avenue and Middlesex avenue, near Winthrop avenue, whereby the city has obtained a permanent right of way for drainage purposes. For many years the city has paid an annual rental for the use of an old water course across this private property, and by the construction during the year of a permanent storm drain in the right of way obtained, the main drainage outlet for the eastern district of the city has been completed. The new structure extends from the tide-gate chamber, constructed in Middlesex avenue the previous year, southwesterly across the marsh land to Mystic avenue at Winthrop avenue, where it connects with the bell-mouth chamber previously built, and takes the drainage from three large structures discharging at this point. This new drain is constructed principally of concrete and expanded metal with I beams. It is ten feet wide and seven and one-half feet high, and is the largest drainage structure in the city.

The "separate system" sewers (those built for house drainage only) have been extended in various streets, and this work should continue yearly as the appropriation will allow, until all flooded areas in the city have a new sewerage system. All house drains

in these districts should be re-connected with the new sewers as soon as built.

A number of sewers have been constructed as petitioned for in different sections of the city, and portions of the cost of construction assessed upon the abutting estates. Fifteen sewers and drains have been constructed during the year, a length of 6,433 feet (1.2 miles). Thirty-nine catch-basins have been constructed on the highways during the past year, and the drainage of a number of streets improved. This makes a total of 1,267 catch-basins for street drainage purposes. Two hundred fifty-eight permits have been issued to licensed drain layers for connecting buildings with the main sewers under the supervision of the city's inspector. There are at present about 12,500 private drains connected with the city's drainage system. The total length of this system is 88.3 miles, 17.5 miles being under the new "separate system" sewers, and 4.7 miles being storm drains. The total cost of new sewer construction work for the year has amounted to about \$31,000, and the cost of maintaining the system for the past year (not including \$1,585 paid the city of Cambridge) has been about \$11,500.

Public Grounds.

Several improvements have been made in the city's public grounds during the past year, chief of which was the completion of the Prospect Hill park, which I have mentioned at some length elsewhere in this address. The old Bennett schoolhouse has been removed from the lot at the corner of Poplar and Joy streets, and the lot graded and put in use for the children in that district for a playground. At Lincoln park a large portion of the old clay pit has been filled in with material from Prospect Hill park, and with ashes deposited by the board of health teams. A new straight-away running track has been completed, and a fence ten feet high constructed on a portion of the westerly boundary of the park for the protection of the adjoining private property.

The city maintains at the present time three good athletic fields, namely,—a portion of Lincoln park, the enclosed field on Broadway near Powder House square, and the field on Broadway at the corner of Cedar street. These three grounds are in constant use by various athletic teams throughout the baseball and football seasons. The grounds on College avenue, op-

posite Morrison avenue, have been maintained for tennis playing and other games. I would recommend that an additional playground be provided by taking that portion of Broadway park adjoining Mystic avenue and converting it to that use, or by purchasing additional land in that section.

The rockery and basin, generously provided for in the will of the late Joseph F. Wilson, has been constructed in Central Hill park, and adds much to the beauty of the spot.

The total area of public grounds maintained by the city at the present time amounts to over fifty-eight acres, not including a boulevard about one and one-quarter miles in length. The cost of maintenance for the past year has been about \$11,300.

Prospect Hill Park.

One more area in the city's park system has been practically graded and completed during the year,—the land purchased on Prospect Hill. A roadway and walks have been laid out and beds of shrubbery and trees planted, which eventually will make it one of the finest pleasure parks in this section.

This park will always be of great historical interest on account of the encampment of soldiers on this hill, both in the Revolutionary and Civil wars. A portion of the old hill has been left at its original height, on top of which a granite observation tower has been erected. From the top of this tower an unobstructed view may be had for miles in every direction. Bronze tablets are being made, with inscriptions of historical events, and will be placed on the Munroe-street retaining wall at the base of the tower. The corner-stone of the tower was set July 7, and the park was dedicated with appropriate exercises on the twenty-ninth day of last October.

The entire cost of this park, including the building of the observation tower, will not exceed \$75,000, of which amount about \$50,000 was for the purchase of the land.

Engineering Department.

Very important work has been carried on by this department during the past year, practically all of which has been treated under other headings. The work of the department has been performed in an able, faithful and systematic manner, and to the satisfaction of all having business with the department.

Water Department.

The construction operations of the water department during the past year have been largely of a routine nature relating to the general maintenance and efficiency of the water works system, such as the renewal of street water mains, construction of mains in new streets, repairs of mains and house service pipes, inspection and maintenance of our extensive fire hydrant system, laying service pipes to new buildings, setting water meters, setting and maintaining waterposts for the street sprinkling department, setting new hydrants and stop-gates, and improving the water circulation. Every building in the city has been visited at least once for the purpose of obtaining data for the water-rate levy and for the restriction of water waste.

The year's work has been signalized by the removal of practically the last of the old cement-lined water mains, and the city now possesses a modern water distribution system that is second to none in point of efficiency. Six thousand, six hundred sixty-four feet of pipe have been renewed the past year, and in extending the water pipe system 3,280 feet of iron pipe have been laid, while 5,529 feet of service pipe have been used in making connections between the street mains and new houses. Thirty-one fire hydrants and forty-four stop-gates have been set and renewed, nine blow-off connections have been put in, and one waterpost has been constructed for the highway department. The length of water mains now in the city is over eighty-nine miles, and the appurtenances connected therewith comprise 973 fire hydrants, 1,319 stop-gates, sixty-nine waterposts, and eleven drinking fountains and troughs.

The subject of the general use of water meters has received much careful consideration during the year, and, in accordance with the policy proposed one year ago, 366 new premises have been metered, making a total of 635 operating meters in the city at the present time. The result of this metering has been generally very satisfactory; to the consumer in being able to obtain his water, in most cases, at a lower price than under the flat rate, and to the city in being able to stop, in some cases, excessive waste of water where other means have failed. The metropolitan water and sewerage board has completed its installation of meters on the main supply lines to our city with the view, in the near future, of measuring all the water supplied to us. I have been informed by the board that, if the present waste of

water continues, it will be necessary, in a very few years, to enlarge the works at an estimated expense of about \$40,000,000, of which amount Somerville will be called upon to pay approximately \$1,600,000. I have positive information that at the next session of the legislature a bill will be introduced, at the suggestion of the board, and will undoubtedly pass and become a law, providing that the water supplied the different cities and towns in the metropolitan water district shall be measured, and the state water tax assessed according to the amount consumed by the respective cities and towns. When the water tax is assessed on that basis, it will be of the utmost importance to take such action as will restrict the waste of water and bring the consumption down to a basis of liberal but legitimate use, and this can only be accomplished by the further extension of the meter system. Certainly the use of meters tends to an equalization of the water charges and to a restriction of water waste, both very desirable conditions, and therefore I recommend that the meter system be installed in all buildings where water is used for other than strictly domestic purposes.

The water furnished us by the state has been of good quality. The works of the metropolitan system, to the cost of which we are, next to Boston, the largest contributor, are making good progress toward completion. The assessment which Somerville paid this year as its proportion of the expenses of the works was \$77,288.43, and the total payment made by this city since the beginning, in 1898, is \$260,418.09. The water income of the city for 1903 was, approximately, \$223,000, an increase of about \$9,000 over the previous year. The expenses of maintenance, operation and extension of the local works, payment of maturing water bonds, and the metropolitan water works assessment, amounted to about \$158,000, leaving a surplus of about \$65,000.

Buildings Department.

The commissioner of public buildings has the care and maintenance of twenty-six school buildings, eight fire department buildings, the city hall, city hall annex, public library building and police building, together with the buildings connected with the health, highway, public grounds, sewer, poor and water departments. During the past year a number of routine repairs and several important improvements

were made, among which was the installing of a new electric switch-board and motor generator, contracted for in 1902, in the English High school building, to be used in connection with the chemical and physical laboratories and the stereopticon in the lecture hall. A radical change was also made in the arrangement of the first-floor rooms at the Latin school, the large classroom being made smaller, and two new recitation rooms being constructed on the westerly side. This change was made absolutely necessary by the increased attendance of pupils and the need of additional recitation rooms. The old-fashioned shutters in several of the older school buildings have been removed, and cloth shades substituted in their places. I would recommend that a sufficient appropriation be provided for the outside painting of several of the school buildings, as this work appears absolutely necessary to prevent the decay of the woodwork, which in some cases has already begun.

A considerable change has been made in the arrangement of the mayor's offices. A private lavatory has been provided, in connection with, and a private exit from, the Mayor's room. The offices have been partially refurnished, and are much more comfortable and attractive.

During the year 232 permits have been issued for the erection of new buildings and for alterations, the estimated cost of this work amounting to \$507,855. A systematic inspection of buildings under process of construction, and the plumbing of the same, has been made during the year, and the department has endeavored to see that the building regulations have been strictly complied with.

Department of Electric Lines and Lights.

This department has the care and maintenance of all electrical appliances belonging to the city, which include the fire alarm and police signal systems and the electrical apparatus of all schoolhouses and public buildings. It also has under its care the street lights and the supervision of all poles and wires in the public streets. During the year the department has successfully maintained its usual high standard in the care of all the electrical appliances under its charge, all alarms having been correctly transmitted, and the schoolhouses having received most careful attention.

Seven arc lights and twenty-one incandescent lights have been added to the city's lighting system during the past year, making a total of 485 arc lights and 453 incandescent lights now in service. Taken as a whole, Somerville is one of the best-lighted cities in the state, and there is every reason to believe that we shall continue to maintain our excellence in this respect.

Schools.

The American public school is the bulwark of our American institutions. In no country in the world are the people so intelligent, so well-read, and so well-informed as in the United States, and that this is so is due entirely to the influence of our public schools. While the public schools in Somerville, as elsewhere in the nation, continue to be the chief item of expense, it should be borne in mind that the returns from this expenditure are larger than could be obtained in any other way. Money expended in training our youth to be law-abiding, self-supporting American citizens is money well expended.

To-day there are 400 more children in our public schools than there were a year ago. That the number of pupils will continue to increase as long as our city continues to grow is certain, as is also the fact that we shall continue to need additional schoolhouses to provide for this increase. We shall undoubtedly be obliged to authorize a considerable expenditure to adequately accommodate our pupils, but I do not feel justified in recommending any specific appropriation for construction purposes until I have had further opportunity to acquaint myself with the condition of our schools, as well as with the financial condition of our city. I shall doubtless take occasion to make this matter the subject of a special message at some future date.

Public Library.

Our public library during the past year has done an increased amount of work in nearly all its departments. There has been a decided gain in circulation over previous years, upwards of 315,000 volumes having been given out. The number of books distributed through our schools has largely increased. Of 227 rooms in our public schools, 163 have been supplied with permanent libraries consisting, in most instances, of forty books. There can be no doubt that the public schools supply one of the

best possible mediums for getting good books before a large number of readers.

During most of the year the library has had seven distributing agencies, located in stores in different parts of the city. The policy of delivering books direct to the residences of the people by means of boy carriers has also been continued, upwards of 4,000 books having been delivered in this manner during the year. Both of these methods of delivery are much appreciated in localities remote from the central library.

The library has also sent to seven Sunday schools 1,511 books, and those schools that have accepted this service report it highly satisfactory.

Police Department.

The citizens of Somerville are to be congratulated on the efficiency of their police force. No city in our commonwealth is more free from crime, and in no section of our state are the perpetrators of crime more quickly apprehended.

Our police force at the present time consists of a chief of police, one captain, three lieutenants, five sergeants, one inspector, forty-one regular patrolmen, and ten reserve patrolmen, making a total of sixty-two. During the year Sergeant Christopher C. Cavanagh and Patrolman John Hafford were retired on half-pay, having become incapacitated for further duty, and young men were appointed in their places. The system of retiring men, who, by reason of advanced age, have become unfit for service, is an excellent one, in my opinion, as it is an incentive to every member of the force to do his full duty, knowing that he will be provided for when age and infirmities come upon him. In addition, it infuses new life into the department through the appointment of young men, and maintains its strength and efficiency at a minimum of expense.

At present the interior of the police building is undergoing a great change, as the whole second story is being fitted up for the occupancy of the department, a change that has been contemplated for some time and that has been made possible by the removal of company M to the new armory. Additional changes are under way in the first story of the building, which will give the matron and the female prisoners much more comfortable quarters. When all of the improvements are completed, Somerville will have a police building second to none in the commonwealth in the completeness of its equipment.

Fire Department.

Somerville is very fortunate in having a fire department that for general efficiency is equalled by few and excelled by none in the cities of the commonwealth. During the past year all alarms have been responded to so promptly, and all fires handled so skillfully, that we have again been free from a single conflagration. One hundred and eighty-eight bell alarms and 118 still alarms have been responded to, making a total of 306 alarms, but in only six cases has it been necessary to sound a second alarm to bring additional apparatus to the fire.

A new building is being erected for the department in Union square, to take the place of the old fire station situated on Somerville avenue, Washington and Prospect streets, the old building having become so thoroughly dilapidated that it was inexpedient to spend any money on it, either for alterations or repairs. The new building, when completed, will not only furnish accommodations for the apparatus necessary for the protection of the district, but it will be attractive in appearance, and will give evidence of the desire of the authorities to adequately protect this territory.

The general condition of the apparatus is very good, with the exception of engine number 4, which is sadly in need of a new boiler, only a limited steam pressure being permitted by the government boiler inspectors in its present condition. I recommend that a new boiler be purchased as soon as possible. A new and powerful engine has been purchased, and is now in service at the central station while engine number 1 is being repaired. At present the manual force of the department consists of 117 men, of whom thirty-five are permanently employed, the remaining eighty-two being call men.

Assessors' Department.

During 1903 our board of assessors, in addition to the outdoor work of visiting, examining and listing property, has held forty-one meetings, many of which were hearings on petitions for abatement and exemption. Seven hundred seventy-six such applications were received, nearly all of which have been acted upon and the applicants notified of decisions, according to law.

Personal property to the value of \$109,100 and real estate assessed at \$1,347,200 was exempted from taxation, under the provisions of the third and seventh divisions of section five, chapter twelve, of the revised laws.

While there may have been no criticism of the efficient work of the board in assessing property, there have been a number of complaints of negligence in assessing polls, and therefore I would recommend that the board give this matter careful attention, that such complaints may have no foundation in the future.

Poor Department.

The overseers of the poor have rendered efficient aid to the poor of the city during the past year, there being reason to believe that few, if any, cases of extreme destitution have escaped their notice. During the year 1,132 persons have been aided to a greater or less extent, and 220 families have been assisted at their homes. The city is now paying for the support of 106 insane, feeble-minded, and dipsomaniacs, and during the year has provided for 127 such persons. Five thousand dollars has been paid to the Somerville hospital for care and treatment of the sick poor settled in the city, and the hospital has also been paid \$2,190.87 for the care and treatment of sick poor not settled here, this latter amount having been collected from the state and from different cities and towns. One hundred and sixty city patients have been cared for at the hospital for periods ranging from one day to twenty weeks.

Sixteen men and eleven women have been cared for at the city home during the year, and at present there are thirteen men and seven women there. The expenses of the home for the year were \$7,548.39, and \$3,031.40 was received from the sale of wood and produce, and for the board of certain inmates.

The total expenditures of the department for the year have been about \$30,500.

Somerville Hospital.

I consider the hospital one of Somerville's most worthy institutions. In accordance with our custom for several years past, I recommend that there be appropriated for the care of the sick poor the sum of \$5,000.

Law Department.

A number of important matters have engaged the attention of the city solicitor during the past year. By chapter 504 of the acts of the legislature for the year 1902, the city was author-

ized to take for a public park in West Somerville a certain tract of land, the owners of which had been endeavoring unsuccessfully to secure the right of blasting. An agreement was made this year with Messrs. Collins and Ham by which they were allowed to blast for a limited time under certain restrictions, and the city obtains the privilege of a dumping ground, and expects eventually to become the owner of the land. No arrangement has yet been made with the city of Cambridge, which also desired the right to blast.

The question of apportioning between Somerville and the other municipalities the cost of the new bridge over the Mystic river at Middlesex avenue will soon come before the courts for adjustment. No arrangement has yet been made for giving the street railway company a location over the bridge or over Middlesex avenue, owing, I am informed, to the fact that the railway company is unwilling to accept the terms offered by the commissioners for a location on the bridge. The grade of Middlesex avenue will need to be changed when tracks are placed there, and it will doubtless be necessary for the city to negotiate with the railway company before the terms of a location can be determined.

By chapter 327 of the acts of the legislature for the year 1903, a special commission was created, consisting of the mayors of Cambridge and Somerville and the chairmen of the selectmen of Arlington and Belmont, to take charge of improvements in Alewife brook. The commission referred the matter in large part to our city engineer, but action has been delayed at the request of the metropolitan park commissioners, in order that, if possible, a comprehensive plan may be made for the improvement of the Mystic river at the same time.

Sealer of Weights and Measures.

The work of the sealer of weights and measures continues to increase rapidly, 72,211 tests having been made during the year 1903, as compared with 9,663 in 1897, the year in which the present sealer assumed the office. The expenses of the department for the year past were \$1,424.83, and the receipts \$392.77.

Inspector of Milk.

The work of this department has been practically the same as last year. About 800 samples of milk and fifty samples of

vinegar have been tested, as well as a few samples of butter. License fees and fines amounting to about \$600 have been turned over to the city treasurer.

It is pleasing to note that the quality of the milk tested has been better than in any previous year.

Soldiers' Relief.

During the year just passed the sum of \$19,586.27 was expended for the relief of veteran soldiers, soldiers' widows and families, under the provisions of the legislative act of 1890. That we have had this opportunity of partially lightening the burdens of those valiant men who risked their lives for their country, or of providing for their widows or families, must be gratifying to every Somerville citizen. Somerville has always been careful that its veterans should not want, and it will continue to exercise this same care.

No-License.

Somerville is to be congratulated on again voting no-license by an increased majority. There can be no doubt that our city's comparative freedom from crime is largely due to the no-license policy that we have pursued for so many years. It is needless for me to state that I purpose to vigorously enforce the no-license law, and that illicit liquor sellers, if there be any, will be prosecuted to the full extent of the law.

Gentlemen of the Board of Aldermen: We have accepted from our fellow-citizens a great trust and responsibility. Let us endeavor to so perform our duties, to so advance the interests of our city, and, above all, to so guard its welfare and protect its exalted name, that, when our official term shall end, we shall be deemed worthy of commendation by those who have entrusted so much to our care.

REPORT OF THE CITY TREASURER AND COLLECTOR
OF TAXES.

Treasurer's Office, January 14, 1904.

To the Honorable, the Mayor, and the Board of Aldermen of the
City of Somerville:—

Gentlemen:—The undersigned presents herewith the thirty-second annual report of the financial condition of the city, and a statement showing, in detail, the receipts and disbursements for the year ending December 31, 1903.

Public Property.

The value of the public property of the city December 31, 1902, was \$3,602,384.98. The property acquired during the year was as follows:—

Contagious Disease Hospital and Land	\$400 00
Public Buildings Construction, Clark Bennett School	502 55
Public Buildings Construction, Martha Perry Lowe School	42,544 71
Public Buildings Construction, Addition to Bingham School	17,280 44
Public Buildings Construction, Engine House in Ward Two	15,910 69
Fire Department, New Steam Fire Engine	5,375 00
Fire Department, New Steam Fire Alarm Whistle	510 00
Public Grounds, Improvement Park, Poplar corner Joy Street	250 00
Prospect Hill Park, Completion	1,205 19
Public Buildings Construction, Historical Building and Observatory on Prospect Hill	8,706 16
Water Works Extension	16,694 49
Furniture, School	2,290 00
School Books	1,025 00

\$112,694 23

Making the value of the public property December 31, 1903, as per Table A, \$3,715,079.21.

Funded Debt.

The funded debt December 31, 1902, as per Table B of the last annual report, was \$1,477,000.

The debt was increased during the year by appropriations as follows:—

Public Buildings Construction:—	
Bingham Schoolhouse Addition	\$34,500 00
Historical Building and Observatory on Prospect Hill	7,000 00
Engine House in Ward Two	43,000 00
Amount carried forward	\$84,500 00

Amount brought forward	\$84,500 00
Martha Perry Lowe School	18,000 00
Public Grounds:—	
Completion of Prospect Hill Park	1,000 00
Improvement of Playground, Poplar cor Joy street	250 00
Highways:—	
Construction	15,000 00
Paved Gutters and Crossings	20,600 00
Thorndike Street Subway	3,800 00
Sidewalks Construction	11,350 00
Sewers Construction	25,000 00
Renewal of Funded Debt	18,000 00
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Total amount of appropriations on Funded Debt account	\$197,500 00

To provide for the above-mentioned appropriations, the following bonds were issued, viz.:—

City Loan Bonds Nos. 3017 to 3026, payable 1904, interest 4 per cent.	\$10,000 00
City Loan Bond No. 3027, payable 1904, interest 4 per cent.	500 00
City Loan Bonds Nos. 3150 to 3151, payable 1904, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3028 to 3037, payable 1905, interest 4 per cent.	10,000 00
City Loan Bonds Nos. 3152 to 3153, payable 1905, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3038 to 3046, payable 1906, interest 4 per cent.	9,000 00
City Loan Bonds Nos. 3154 to 3155, payable 1906, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3047 to 3055, payable 1907, interest 4 per cent.	9,000 00
City Loan Bonds Nos. 3156 to 3157, payable 1907, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3056 to 3064, payable 1908, interest 4 per cent.	9,000 00
City Loan Bonds Nos. 3158 to 3159, payable 1908, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3065 to 3073, payable 1909, interest 4 per cent.	9,000 00
City Loan Bonds Nos. 3160 to 3161, payable 1909, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3074 to 3082, payable 1910, interest 4 per cent.	9,000 00
City Loan Bonds Nos. 3162 to 3163, payable 1910, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3083 to 3091, payable 1911, interest 4 per cent.	9,000 00
City Loan Bonds Nos. 3164 to 3165, payable 1911, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3092 to 3100, payable 1912, interest 4 per cent.	9,000 00
City Loan Bonds Nos. 3166 to 3167, payable 1912, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3101 to 3109, payable 1913, interest 4 per cent.	9,000 00
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Amount carried forward	\$110,500 00

Amount brought forward	\$110,500 00
City Loan Bonds Nos. 3168 to 3169, payable 1913, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3110 to 3113, payable 1914, interest 4 per cent.	4,000 00
City Loan Bonds Nos. 3170 to 3171, payable 1914, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3114 to 3117, payable 1915, interest 4 per cent.	4,000 00
City Loan Bonds Nos. 3172 to 3173, payable 1915, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3118 to 3121, payable 1916, interest 4 per cent.	4,000 00
City Loan Bonds Nos. 3174 to 3175, payable 1916, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3122 to 3125, payable 1917, interest 4 per cent.	4,000 00
City Loan Bonds Nos. 3176 to 3177, payable 1917, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3126 to 3129, payable 1918, interest 4 per cent.	4,000 00
City Loan Bonds Nos. 3178 to 3179, payable 1918, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3130 to 3133, payable 1919, interest 4 per cent.	4,000 00
City Loan Bonds Nos. 3180 to 3181, payable 1919, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3134 to 3137, payable 1920, interest 4 per cent.	4,000 00
City Loan Bonds Nos. 3182 to 3183, payable 1920, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3138 to 3141, payable 1921, interest 4 per cent.	4,000 00
City Loan Bonds Nos. 3184 to 3185, payable 1921, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3142 to 3145, payable 1922, interest 4 per cent.	4,000 00
City Loan Bonds Nos. 3186 to 3187, payable 1922, interest 4 per cent.	2,000 00
City Loan Bonds Nos. 3146 to 3149, payable 1923, interest 4 per cent.	4,000 00
City Loan Bonds Nos. 3188 to 3189, payable 1923, interest 4 per cent.	2,000 00
Sewer Loan Bonds Nos. 279 to 303, payable 1904 to 1928, \$1,000 annually, interest 4 per cent.	25,000 00
Total amount of bonds issued in 1903	\$197,500 00

The following bonds became due and were paid during the year, viz:—

City Loan Bonds Nos. 1656 to 1664, interest 4 per cent.	\$9,000 00
City Loan Bonds Nos. 1864 to 1881, interest 4 per cent.	18,000 00
City Loan Bonds Nos. 2116 to 2123, interest 4 per cent.	8,000 00
City Loan Bonds Nos. 2276 to 2284, interest 4 per cent.	9,000 00
City Loan Bonds Nos. 2407 to 2416, interest 4 per cent.	10,000 00
City Loan Bonds Nos. 2540 to 2547, interest 4 per cent.	8,000 00
City Loan Bonds Nos. 2650 to 2661, interest 3½ per cent.	12,000 00
City Loan Bonds Nos. 2786 to 2793, interest 3½ per cent.	8,000 00
Amount carried forward	\$82,000 00

Amount brought forward	\$82,000 00
City Loan Bonds Nos. 2894 to 2903, interest 3½ per cent.	10,000 00
City Loan Bonds Nos. 1215 to 1217, interest 4 per cent.	3,000 00
City Loan Bonds Nos. 1547 to 1581, interest 4½ per cent.	35,000 00
Sewer Loan Bond No. 62, interest 4 per cent.	1,000 00
Sewer Loan Bond No. 179, interest 4 per cent.	1,000 00
Sewer Loan Bond No. 203, interest 4 per cent.	1,000 00
Sewer Loan Bond No. 225, interest 3½ per cent.	1,000 00
Sewer Loan Bond No. 254, interest 3½ per cent.	1,000 00
Sewer Loan Bond No. 45, interest 4½ per cent.	1,000 00
Sewer Loan Bonds Nos. 102 to 105, interest 4 per cent.	4,000 00
Paving Loan Bonds Nos. 51 to 55, interest 4 per cent.	5,000 00
Water Loan Bonds No. 239 to 256, interest 4 per cent.	18,000 00
Water Loan Bond No. b454, interest 4 per cent.	1,000 00
Water Loan Bonds Nos. 349 to 350, interest 4 per cent.	2,000 00
Water Loan Bonds Nos. 448 to 449, interest 4 per cent.	2,000 00
Metropolitan Park Assessment Loan Bond No. 1, interest 3½ per cent.	1,000 00
Total amount of bonds paid during the year	<u>\$169,000 00</u>

Leaving the net funded debt December 31, 1903, as per Table B, \$1,505,500, classified as follows:—

City Loan Bonds bearing interest at 3½ per cent.	\$329,000 00
City Loan Bonds bearing interest at 4 per cent.	779,500 00
City Loan Sewer Bonds bearing interest at 3½ per cent.	52,000 00
City Loan Sewer Bonds bearing interest at 4 per cent.	143,000 00
City Loan Sewer Bonds bearing interest at 4½ per cent.	8,000 00
City Loan Paving Bonds bearing interest at 4 per cent.	45,000 00
Water Loan Bonds bearing interest at 4 per cent.	113,000 00
Water Loan Bonds bearing interest at 5½ per cent.	10,000 00
Metropolitan Park Assessment Loan Bonds bearing interest at 3½ per cent.	26,000 00
	<u>\$1,505,500 00</u>

Total Funded Debt, City Loan	\$1,108,500 00
Total Funded Debt, Water Loan	123,000 00
Total Funded Debt, Paving Loan (outside legal limit)	45,000 00
Total Funded Debt, Sewer Loan	135,000 00
Total Funded Debt, Sewer Loan (outside legal limit)	68,000 00
Total Funded Debt, Metropolitan Park Assessment Loan (outside legal limit)	26,000 00
	<u>\$1,505,500 00</u>

Resources.

The assessors' warrant for the tax levy, assessed upon the polls and estates of the inhabitants, was duly received.

The total amount of taxable property was \$57,062,000, and the rate of taxation was \$17.20 on each \$1,000 valuation, as follows:—

Real estate, valuation	\$51,296,100 00
Personal estate, valuation	5,685,260 00
Non-resident bank shares	80,640 00
Total valuation	<u>\$57,062,000 00</u>

At a rate of \$17.20 on \$1,000 valuation	\$981,466 40
Polls, 18,381 at \$2	36,762 00
Street watering	20,621 44
	<hr/>
Total amount of tax levy	\$1,038,849 84
Borrowed on Funded Debt account to provide for the cost of public improvements and renewals of debt	197,500 00
Water works income	225,615 36
National bank and corporation taxes, applied to Police	32,065 33
Court fees, fines, etc., applied to Police	5,239 00
County of Middlesex, dog licenses, applied to Public Library	3,393 02
Street railway tax for the year 1903, applied to Highways Maintenance	47,392 51
Boston Elevated Railway tax for the year 1903, applied to Highways Maintenance	7,744 52
	<hr/>
Total amount of resources	\$1,557,799 58

Appropriations from Funded Debt and from Income.

Balances unused and in process:—

Highways Construction	\$234 48
Highways, Thorndike-street Subway	1,791 07
Public Buildings Construction, Addition to Bingham School	17,219 56
Public Buildings Construction, Engine House in Ward Two	22,260 31
Public Library, Isaac Pitman Income Fund, Art	87 15
Public Library, Isaac Pitman Income Fund, Poetry	41 49
Sewers Construction	1,374 58
	<hr/>
Balance of appropriations from funded debt and from income	\$43,008 64

Cash.

Balance on hand January 1, 1903	\$27,177 62
Total cash receipts for the year 1903	2,361,599 13
	<hr/>
Total cash disbursements for the year 1903	\$2,388,776 75
	<hr/>
Balance in the treasury December 31, 1903	\$61,714 58
Deposits in banks	\$59,807 11
Cash on hand	1,907 48
	<hr/>
	\$61,714 59

Assets and Liabilities.

The assets of the city available for the payment of its unfunded liabilities are as follows:—

Commonwealth of Massachusetts, balance due	\$14,943 46
Taxes uncollected	325,946 28
Highway Betterment Assessments uncol- lected	5,019 57
	<hr/>
Amount carried forward	\$345,909 31

Amount brought forward . . .	\$345,909 31	
Sewer Assessments uncollected . . .	4,839 77	
Sidewalk Assessments uncollected . . .	4,508 32	
Metered Water Charges uncollected . . .	15,538 44	
Real Estate Liens	2,140 00	
Cash in treasury	61,714 58	
	<hr/>	\$434,650 42

Unfunded liabilities : —

Coupons unpaid	\$26,385 00	
Overplus on Tax Sales	118 13	
Sundry Persons	474 21	
Temporary Loans	375,000 00	
	<hr/>	401,977 34
Excess of available assets over unfunded liabilities . . .		<hr/> \$32,673 08

Balance Sheet.

DEBIT.

Public Property	\$3,715,079 21	
Excess of available assets	32,673 08	
Deficit of appropriations from tax levy . . .	8,401 43	
Overlay and Abatement, Deficit	1,934 13	
	<hr/>	\$3,758,087 85

CREDIT.

Excess of appropriations from Funded Debt . . .	\$43,008 64	
Present Funded Debt	1,505,500 00	
	<hr/>	\$1,548,508 64
Property and Debt Balance or Municipal Capital	2,209,579 21	
	<hr/>	\$3,758,087 85

A detailed statement of the public property, funded debt, and the receipts and disbursements of the several accounts will be found in the following appendix.

Respectfully submitted,

JAMES F. BEARD,

Treasurer and Collector of Taxes.

APPENDIX TO TREASURER AND COLLECTOR'S REPORT.

TABLE A.—PUBLIC PROPERTY DECEMBER 31, 1903.

Central Hill land (13 acres, 5,032 feet)	.	.	.	\$270,000 00
City Hall	.	.	.	\$35,332 32
Furniture and fixtures	.	.	.	10,000 00
				45,332 32
Public Library building	.	.	.	42,000 00
Public Library	.	.	.	25,000 00
				67,000 00
City Hall Annex	.	.	.	20,655 02
Albion A. Perry Schoolhouse, Washington street, land (46,080 feet) and building	.	.	.	36,000 00
Furniture	.	.	.	1,080 00
Books	.	.	.	530 00
				37,610 00
Bingham Schoolhouse, land (21,424 feet) and building	.	.	.	48,080 44
Furniture	.	.	.	1,400 00
Books	.	.	.	1,100 00
				50,580 44
Burns Schoolhouse, land (16,080 feet) and building	.	.	.	33,300 00
Furniture	.	.	.	1,400 00
Books	.	.	.	1,000 00
				35,700 00
Charles G. Pope Schoolhouse, land (27,236 feet) and building	.	.	.	78,600 00
Furniture	.	.	.	2,160 00
Books	.	.	.	2,600 00
				83,360 00
Cummings Schoolhouse, land (11,300 feet) and building	.	.	.	11,200 00
Furniture	.	.	.	720 00
Books	.	.	.	500 00
				12,420 00
Davis Schoolhouse, land (30,155 feet) and building	.	.	.	22,000 00
Furniture	.	.	.	720 00
Books	.	.	.	400 00
				23,120 00
Edgerly Schoolhouse, land (24,000 feet) and building	.	.	.	42,000 00
Furniture	.	.	.	2,160 00
Books	.	.	.	2,800 00
				46,960 00
English High Schoolhouse	.	.	.	134,000 00
Furniture	.	.	.	3,600 00
Philosophical and manual training apparatus	.	.	.	8,200 00
Books	.	.	.	12,000 00
				157,800 00
Amount carried forward	.	.	.	\$350,537 78

Amount brought forward		\$850,537 78	
Forster Schoolhouse and Annex, land (30,632 feet) and buildings	82,000 00		
Furniture	3,240 00		
Books	4,100 00		
			89,340 00
George L. Baxter Schoolhouse, land (11,000 feet) and building	31,800 00		
Furniture	1,155 64		
Books	450 00		
			33,405 64
George W. Durell Schoolhouse, land (13,883 feet) and building	19,000 00		
Furniture	720 00		
Books	500 00		
			20,220 00
Highland Schoolhouse, land (23,260 feet) and building	58,000 00		
Furniture	2,560 00		
Books	2,800 00		
			63,360 00
Jacob T. Glines Schoolhouse, land (28,800 feet) and building	78,200 00		
Furniture	2,340 00		
Books	2,100 00		
			82,640 00
Latin High Schoolhouse	60,000 00		
Furniture	2,000 00		
Philosophical apparatus	500 00		
Books	3,300 00		
			65,800 00
Lincoln Schoolhouse, land (17,662 feet) and building	17,500 00		
Furniture	720 00		
Books	500 00		
			18,720 00
Luther V. Bell Schoolhouse, land (22,262 feet) and building	43,000 00		
Furniture	2,340 00		
Books	2,400 00		
			47,740 00
Martin W. Carr Schoolhouse, land (20,450 feet) and building	51,000 00		
Furniture	2,800 00		
Books	2,800 00		
			56,600 00
Morse Schoolhouse, land (29,000 feet) and building	45,859 00		
Furniture	2,340 00		
Books	2,800 00		
			50,999 00
Martha Perry Lowe Schoolhouse, land (21,- 650 feet) and building	50,346 16		
Furniture	1,480 00		
Books	800 00		
			52,626 16
Amount carried forward			\$1,431,988 58

Amount brought forward		\$1,431,988 58	
O. S. Knapp Schoolhouse, land (24,517 feet)			
and building	48,000 00		
Furniture	2,340 00		
Books	3,000 00		
			53,340 00
Prescott Schoolhouse, land (22,000 feet) and			
building	64,000 00		
Furniture	2,160 00		
Books	2,700 00		
			68,860 00
Prospect-hill Schoolhouse, land (23,733 feet)			
and building			15,000 00
Benjamin G. Brown Schoolhouse, land			
(20,093 feet) and building	38,400 00		
Furniture	1,290 16		
Books	700 00		
			40,390 16
Sanford Hanscom Schoolhouse, land (12,756			
feet) and building	48,500 00		
Furniture	1,080 00		
Books	500 00		
			50,080 00
Clark W. Bennett Schoolhouse, land (12,000			
feet) and building	57,268 32		
Furniture	1,980 00		
Books	1,000 00		
			60,248 32
William H. Hodgkins Schoolhouse, land			
(35,034 feet) and building	69,300 00		
Furniture	2,250 00		
Books	2,300 00		
			73,850 00
City Stables, dwelling houses and school-			
house and 462,623 feet of land	84,000 00		
Equipments for highway repairs	21,690 00		
Watering carts and sheds	5,000 00		
			110,690 00
No. 1 Fire Station, land (8,937 feet) and			
building	33,200 00		
Engine No. 2 and apparatus	4,000 00		
Hose wagon No. 1 and apparatus	1,500 00		
Furniture	400 00		
			39,100 00
No. 2 Fire Station, land (5,500 feet) and			
building	10,400 00		
Furniture	400 00		
Hose wagon No. 2 and apparatus	1,500 00		
			12,300 00
No. 3 Fire Station, land (10,027 feet) and			
building	25,910 69		
Furniture	400 00		
Hose wagon No. 3 and apparatus	1,500 00		
Hook and ladder truck and apparatus	3,400 00		
Engine No. 3	5,375 00		
			36,585 69
Amount carried forward			\$1,992,432 75

Amount brought forward		\$1,992,432 75
No. 4 Fire Station, land (9,100 feet) and building	15,500 00	
Furniture	400 00	
Engine No. 4 and apparatus	4,000 00	
Combination wagon and apparatus	2,500 00	
	<hr/>	22,400 00
No. 5 Fire Station, land (39,000 feet) and building	16,500 00	
Furniture	400 00	
Hose wagon No. 5 and apparatus	1,500 00	
	<hr/>	18,400 00
No. 6 Fire Station, land (8,113 feet) and building	17,600 00	
Furniture	600 00	
Apparatus	4,850 00	
	<hr/>	23,050 00
Hook and Ladder Station No. 2, land (9,903 feet) and building	14,100 00	
Furniture	1,200 00	
Apparatus	7,500 00	
	<hr/>	22,800 00
Central Fire Station, land (11,738 feet) and building	36,700 00	
Furniture	500 00	
Engine No. 1 and apparatus	4,000 00	
Hose wagon and apparatus	2,000 00	
Two relief hose carriages	1,000 00	
One relief hook and ladder	400 00	
Chemical Engine A and equipment	2,498 53	
	<hr/>	47,098 53
Fire Alarm and Police Signal apparatus		36,610 00
Police Station, land (15,225 feet) and building	54,000 00	
Furniture	3,000 00	
	<hr/>	57,000 00
City Home, Broadway, land (421,648 feet) and buildings	29,400 00	
Furniture	1,426 09	
	<hr/>	30,826 09
City Home, land adjacent (9,422 feet)	1,600 00	
(74,593 feet)	13,900 00	
	<hr/>	15,500 00
Water Works		818,524 63
Prospect street, land (7,918 feet) and building		6,800 00
Broadway Park (cost \$212,993.20) (700,000 square feet)		270,000 00
Nathan Tufts Park (about 4 54-100 acres, 217,572 feet)		68,000 00
Lincoln Park, Washington street (289,140 square feet)		63,200 00
Prospect-hill Park (87,056 feet)	65,881 05	
Historical Building and Observatory	8,706 16	
	<hr/>	74,587 21
Franklin Park (40,000 feet)		12,000 00
Powder-House Boulevard (200,618 square feet) and building		22,500 00
Joy street, land (2,700 feet)		500 00
Walnut Hill, land (10,890 feet)		2,300 00
College avenue, land (18,000 feet)		6,000 00
Webster avenue, land (10,000 feet)		2,500 00
Holland street, land (217,800 feet)		35,500 00
	<hr/>	
Amount carried forward		\$3,648,529 21

Amount brought forward	\$3,648,529 21
Gravel land in Waltham (about 35 acres)	15,000 00
Gravel land in Wakefield (about 1 1-3 acres)	5,000 00
Gravel land rear North street (about 5 43-100 acres)	4,000 00
Oliver street, land (50,000 feet)	18,000 00
Whipple street, land (15,240 feet)	3,000 00
Beacon street, land (10,000 feet)	2,800 00
Passageway on Putnam street (1,135 feet)	400 00
Stand Pipe lot (17,176 feet)	5,100 00
Glen street, land (6,370 feet) and storehouse	2,300 00
Somerville avenue, land (305 feet)	300 00
Broadway, junction Main street, land	900 00
Joy Street playground	9,750 00
Total amount of public property	<u>\$3,715,079 21</u>

TABLE B.—FUNDED DEBT DECEMBER 31, 1903.

City Loan Bonds.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1894	1,665 to 1,673	4	July 1, 1904	\$1,000	\$ 9,000
July 1, 1895	1,882 to 1,899	4	July 1, 1904	1,000	18,000
July 1, 1896	2,124 to 2,131	4	July 1, 1904	1,000	8,000
July 1, 1897	2,285 to 2,293	4	July 1, 1904	1,000	9,000
July 1, 1898	2,417 to 2,426	4	July 1, 1904	1,000	10,000
July 1, 1899	2,548 to 2,555	4	July 1, 1904	1,000	8,000
July 2, 1900	2,662 to 2,673	3½	July 1, 1904	1,000	12,000
July 1, 1901	2,794 to 2,801	3½	July 1, 1904	1,000	8,000
July 1, 1902	2,904 to 2,913	3½	July 1, 1904	1,000	10,000
July 1, 1903	3,017 to 3,026	4	July 1, 1904	1,000	10,000
July 1, 1903	3,027	4	July 1, 1904	500	500
October 1, 1891	1,218 to 1,220	4	Oct. 1, 1904	1,000	3,000
October 1, 1903	3,150 to 3,151	4	Oct. 1, 1904	1,000	2,000
July 1, 1894	1,674 to 1,679	4	July 1, 1905	1,000	6,000
July 1, 1895	1,900 to 1,917	4	July 1, 1905	1,000	18,000
July 1, 1896	2,132 to 2,139	4	July 1, 1905	1,000	8,000
July 1, 1897	2,294 to 2,302	4	July 1, 1905	1,000	9,000
July 1, 1898	2,427 to 2,436	4	July 1, 1905	1,000	10,000
July 1, 1899	2,556 to 2,563	4	July 1, 1905	1,000	8,000
July 2, 1900	2,674 to 2,685	3½	July 1, 1905	1,000	12,000
July 1, 1901	2,802 to 2,809	3½	July 1, 1905	1,000	8,000
July 1, 1902	2,914 to 2,923	3½	July 1, 1905	1,000	10,000
July 1, 1903	3,028 to 3,037	4	July 1, 1905	1,000	10,000
October 1, 1891	1,221 to 1,223	4	Oct. 1, 1905	1,000	3,000
October 1, 1903	3,152 to 3,153	4	Oct. 1, 1905	1,000	2,000
July 1, 1894	1,680 to 1,685	4	July 1, 1906	1,000	6,000
July 1, 1895	1,918 to 1,932	4	July 1, 1906	1,000	15,000
July 1, 1896	2,140 to 2,147	4	July 1, 1906	1,000	8,000
July 1, 1897	2,303 to 2,311	4	July 1, 1906	1,000	9,000
	Amount	carried	forward .	. . .	\$249,500

CITY LOAN BONDS.—Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomi- nation.	Amount.
	Amount brought forward . . .				\$249,500
July 1, 1898	2,437 to 2,446	4	July 1, 1906	\$1,000	10,000
July 1, 1899	2,564 to 2,570	4	July 1, 1906	1,000	7,000
July 2, 1900	2,686 to 2,695	3½	July 1, 1906	1,000	10,000
July 1, 1901	2,810 to 2,817	3½	July 1, 1906	1,000	8,000
July 1, 1902	2,924 to 2,933	3½	July 1, 1906	1,000	10,000
July 1, 1903	3,038 to 3,046	4	July 1, 1906	1,000	9,000
October 1, 1903	3,154 to 3,155	4	Oct. 1, 1906	1,000	2,000
July 1, 1894	1,686 to 1,691	4	July 1, 1907	1,000	6,000
July 1, 1895	1,933 to 1,947	4	July 1, 1907	1,000	15,000
July 1, 1896	2,148 to 2,155	4	July 1, 1907	1,000	8,000
July 1, 1897	2,312 to 2,320	4	July 1, 1907	1,000	9,000
July 1, 1898	2,447 to 2,456	4	July 1, 1907	1,000	10,000
July 1, 1899	2,571 to 2,577	4	July 1, 1907	1,000	7,000
July 2, 1900	2,696 to 2,705	3¹	July 1, 1907	1,000	10,000
July 1, 1901	2,818 to 2,825	3½	July 1, 1907	1,000	8,000
July 1, 1902	2,934 to 2,942	3½	July 1, 1907	1,000	9,000
July 1, 1903	3,047 to 3,055	4	July 1, 1907	1,000	9,000
October 1, 1903	3,156 to 3,157	4	Oct. 1, 1907	1,000	2,000
July 1, 1894	1,692 to 1,697	4	July 1, 1908	1,000	6,000
July 1, 1895	1,948 to 1,962	4	July 1, 1908	1,000	15,000
July 1, 1896	2,156 to 2,163	4	July 1, 1908	1,000	8,000
July 1, 1897	2,321 to 2,325	4	July 1, 1908	1,000	5,000
July 1, 1898	2,457 to 2,465	4	July 1, 1908	1,000	9,000
July 1, 1899	2,578 to 2,584	4	July 1, 1908	1,000	7,000
July 2, 1900	2,706 to 2,715	3½	July 1, 1908	1,000	10,000
July 1, 1901	2,826 to 2,832	3½	July 1, 1908	1,000	7,000
July 1, 1902	2,943 to 2,951	3½	July 1, 1908	1,000	9,000
July 1, 1903	3,056 to 3,064	4	July 1, 1908	1,000	9,000
October 1, 1903	3,158 to 3,159	4	Oct. 1, 1908	1,000	2,000
	Amount carried forward . . .				\$485,500

CITY LOAN BONDS. — Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount brought forward . .			. . .	\$485,500
July 1, 1894	1,698 to 1,703	4	July 1, 1909	\$1,000	6,000
July 1, 1895	1,963 to 1,976	4	July 1, 1909	1,000	14,000
July 1, 1896	2,164 to 2,171	4	July 1, 1909	1,000	8,000
July 1, 1897	2,326 to 2,330	4	July 1, 1909	1,000	5,000
July 1, 1898	2,466 to 2,470	4	July 1, 1909	1,000	5,000
July 1, 1899	2,585 to 2,591	4	July 1, 1909	1,000	7,000
July 2, 1900	2,716 to 2,725	3½	July 1, 1909	1,000	10,000
July 1, 1901	2,833 to 2,839	3½	July 1, 1909	1,000	7,000
July 1, 1902	2,952 to 2,960	3½	July 1, 1909	1,000	9,000
July 1, 1903	3,065 to 3,073	4	July 1, 1909	1,000	9,000
October 1, 1903	3,160 to 3,161	4	Oct. 1, 1909	1,000	2,000
July 1, 1894	1,704 to 1,709	4	July 1, 1910	1,000	6,000
July 1, 1895	1,977 to 1,990	4	July 1, 1910	1,000	14,000
July 1, 1896	2,172 to 2,179	4	July 1, 1910	1,000	8,000
July 1, 1897	2,331 to 2,335	4	July 1, 1910	1,000	5,000
July 1, 1898	2,471 to 2,475	4	July 1, 1910	1,000	5,000
July 1, 1899	2,592 to 2,595	4	July 1, 1910	1,000	4,000
July 2, 1900	2,726 to 2,735	3½	July 1, 1910	1,000	10,000
July 1, 1901	2,840 to 2,846	3½	July 1, 1910	1,000	7,000
July 1, 1902	2,961 to 2,969	3½	July 1, 1910	1,000	9,000
July 1, 1903	3,074 to 3,082	4	July 1, 1910	1,000	9,000
October 1, 1903	3,162 to 3,163	4	Oct. 1, 1910	1,000	2,000
July 1, 1894	1,710 to 1,715	4	July 1, 1911	1,000	6,000
July 1, 1895	1,991 to 2,004	4	July 1, 1911	1,000	14,000
July 1, 1896	2,180 to 2,187	4	July 1, 1911	1,000	8,000
July 1, 1897	2,336 to 2,340	4	July 1, 1911	1,000	5,000
July 1, 1898	2,476 to 2,480	4	July 1, 1911	1,000	5,000
July 1, 1899	2,596 to 2,599	4	July 1, 1911	1,000	4,000
July 2, 1900	2,736 to 2,740	3½	July 1, 1911	1,000	5,000
July 1, 1901	2,847 to 2,853	3½	July 1, 1911	1,000	7,000
	Amount carried forward . .			. . .	\$700,500

CITY LOAN BONDS.—Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount	brought	forward . .	. . .	\$700,500
July 1, 1902	2,970 to 2,978	3½	July 1, 1911	\$1,000	9,000
July 1, 1903	3,083 to 3,091	4	July 1, 1911	1,000	9,000
October 1, 1903	3,164 to 3,165	4	Oct. 1, 1911	1,000	2,000
July 1, 1894	1,716 to 1,721	4	July 1, 1912	1,000	6,000
July 1, 1895	2,005 to 2,018	4	July 1, 1912	1,000	14,000
July 1, 1896	2,188 to 2,194	4	July 1, 1912	1,000	7,000
July 1, 1897	2,341 to 2,344	4	July 1, 1912	1,000	4,000
July 1, 1898	2,481 to 2,485	4	July 1, 1912	1,000	5,000
July 1, 1899	2,600 to 2,603	4	July 1, 1912	1,000	4,000
July 2, 1900	2,741 to 2,745	3½	July 1, 1912	1,000	5,000
July 1, 1901	2,854 to 2,857	3½	July 1, 1912	1,000	4,000
July 1, 1902	2,979 to 2,987	3½	July 1, 1912	1,000	9,000
July 1, 1903	3,092 to 3,100	4	July 1, 1912	1,000	9,000
October 1, 1903	3,166 to 3,167	4	Oct. 1, 1912	1,000	2,000
July 1, 1894	1,722 to 1,727	4	July 1, 1913	1,000	6,000
July 1, 1895	2,019 to 2,031	4	July 1, 1913	1,000	13,000
July 1, 1896	2,195 to 2,201	4	July 1, 1913	1,000	7,000
July 1, 1897	2,345 to 2,348	4	July 1, 1913	1,000	4,000
July 1, 1898	2,486 to 2,490	4	July 1, 1913	1,000	5,000
July 1, 1899	2,604 to 2,607	4	July 1, 1913	1,000	4,000
July 2, 1900	2,746 to 2,749	3½	July 1, 1913	1,000	4,000
July 1, 1901	2,858 to 2,861	3½	July 1, 1913	1,000	4,000
July 1, 1902	2,988 to 2,990	3½	July 1, 1913	1,000	3,000
July 1, 1903	3,101 to 3,109	4	July 1, 1913	1,000	9,000
October 1, 1903	3,168 to 3,169	4	Oct. 1, 1913	1,000	2,000
July 1, 1894	1,728 to 1,733	4	July 1, 1914	1,000	6,000
July 1, 1895	2,032 to 2,044	4	July 1, 1914	1,000	13,000
July 1, 1896	2,202 to 2,208	4	July 1, 1914	1,000	7,000
July 1, 1897	2,349 to 2,352	4	July 1, 1914	1,000	4,000
July 1, 1898	2,491 to 2,495	4	July 1, 1914	1,000	5,000
	Amount	carried	forward .	. . .	\$885,500

CITY LOAN BONDS.—Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount	brought forward . . .			\$885,500
July 1, 1899	2,608 to 2,611	4	July 1, 1914	\$1,000	4,000
July 2, 1900	2,750 to 2,753	3½	July 1, 1914	1,000	4,000
July 1, 1901	2,862 to 2,865	3½	July 1, 1914	1,000	4,000
July 1, 1902	2,991 to 2,993	3½	July 1, 1914	1,000	3,000
July 1, 1903	3,110 to 3,113	4	July 1, 1914	1,000	4,000
October 1, 1903	3,170 to 3,171	4	Oct. 1, 1914	1,000	2,000
July 1, 1895	2,045 to 2,057	4	July 1, 1915	1,000	13,000
July 1, 1896	2,209 to 2,215	4	July 1, 1915	1,000	7,000
July 1, 1897	2,353 to 2,356	4	July 1, 1915	1,000	4,000
July 1, 1898	2,496 to 2,500	4	July 1, 1915	1,000	5,000
July 1, 1899	2,612 to 2,614	4	July 1, 1915	1,000	3,000
July 2, 1900	2,754 to 2,757	3½	July 1, 1915	1,000	4,000
July 1, 1901	2,866 to 2,869	3½	July 1, 1915	1,000	4,000
July 1, 1902	2,994 to 2,996	3½	July 1, 1915	1,000	3,000
July 1, 1903	3,114 to 3,117	4	July 1, 1915	1,000	4,000
October 1, 1903	3,172 to 3,173	4	Oct. 1, 1915	1,000	2,000
July 1, 1896	2,216 to 2,222	4	July 1, 1916	1,000	7,000
July 1, 1897	2,357 to 2,360	4	July 1, 1916	1,000	4,000
July 1, 1898	2,501 to 2,505	4	July 1, 1916	1,000	5,000
July 1, 1899	2,615 to 2,617	4	July 1, 1916	1,000	3,000
July 2, 1900	2,758 to 2,761	3½	July 1, 1916	1,000	4,000
July 1, 1901	2,870 to 2,873	3½	July 1, 1916	1,000	4,000
July 1, 1902	2,997 to 2,999	3½	July 1, 1916	1,000	3,000
July 1, 1903	3,118 to 3,121	4	July 1, 1916	1,000	4,000
October 1, 1903	3,174 to 3,175	4	Oct. 1, 1916	1,000	2,000
July 1, 1897	2,361 to 2,364	4	July 1, 1917	1,000	4,000
July 1, 1898	2,506 to 2,510	4	July 1, 1917	1,000	5,000
July 1, 1899	2,618 to 2,620	4	July 1, 1917	1,000	3,000
July 2, 1900	2,762 to 2,765	3½	July 1, 1917	1,000	4,000
July 1, 1901	2,874 to 2,877	3½	July 1, 1917	1,000	4,000
	Amount	carried forward . . .			\$1,011,500

CITY LOAN BONDS.—Concluded.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount brought forward . . .				\$1,011,500
July 1, 1902	3,000 to 3,002	3½	July 1, 1917	\$1,000	3,000
July 1, 1903	3,122 to 3,125	4	July 1, 1917	1,000	4 000
October 1, 1903	3,176 to 3,177	4	Oct. 1, 1917	1,000	2,000
July 1, 1898	2,511 to 2,515	4	July 1, 1918	1,000	5,000
July 1, 1899	2,621 to 2,623	4	July 1, 1918	1,000	3,000
July 2, 1900	2,766 to 2,769	3½	July 1, 1918	1,000	4,000
July 1, 1901	2,878 to 2,881	3½	July 1, 1918	1,000	4,000
July 1, 1902	3,003 to 3,005	3½	July 1, 1918	1,000	3,000
July 1, 1903	3,126 to 3,129	4	July 1, 1918	1,000	4,000
October 1, 1903	3,178 to 3,179	4	Oct. 1, 1918	1,000	2,000
July 1, 1899	2,624 to 2,625	4	July 1, 1919	1,000	2,000
July 2, 1900	2,770 to 2,773	3½	July 1, 1919	1,000	4,000
July 1, 1901	2 882 to 2,885	3½	July 1, 1919	1,000	4,000
July 1, 1902	3,006 to 3,008	3½	July 1, 1919	1,000	3,000
July 1, 1903	3,130 to 3,133	4	July 1, 1919	1,000	4,000
October 1, 1903	3,180 to 3,181	4	Oct. 1, 1919	1,000	2,000
July 2, 1900	2,774 to 2,777	3½	July 1, 1920	1,000	4,000
July 1, 1901	2,886 to 2,889	3½	July 1, 1920	1,000	4,000
July 1, 1902	3,009 to 3,011	3½	July 1, 1920	1,000	3,000
July 1, 1903	3,134 to 3,137	4	July 1, 1920	1,000	4,000
October 1, 1903	3,182 to 3,183	4	Oct. 1, 1920	1,000	2,000
July 1, 1901	2,890 to 2,893	3½	July 1, 1921	1,000	4,000
July 1, 1901	3,012 to 3,014	3½	July 1, 1921	1,000	3,000
July 1, 1903	3,138 to 3,141	4	July 1, 1921	1,000	4,000
October 1, 1903	3,184 to 3,185	4	Oct. 1, 1921	1,000	2,000
July 1, 1901	3,015 to 3,016	3½	July 1, 1922	1,000	2,000
July 1, 1903	3,142 to 3,145	4	July 1, 1922	1,000	4,000
October 1, 1903	3,186 to 3,187	4	Oct. 1, 1922	1,000	2,000
July 1, 1903	3,146 to 3,149	4	July 1, 1923	1,000	4,000
October 1, 1903	3,188 to 3,189	4	Oct. 1, 1923	1,000	2,000
	Total amount of City Loan Bonds . . .				\$1,108,500

Sewer Loan Bonds.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1894	63	4	July 1, 1904	\$1,000	\$1,000
July 1, 1897	180	4	July 1, 1904	1,000	1,000
July 1, 1898	204	4	July 1, 1904	1,000	1,000
July 1, 1901	226	3½	July 1, 1904	1,000	1,000
July 1, 1902	255	3½	July 1, 1904	1,000	1,000
July 1, 1903	279	4	July 1, 1904	1,000	1,000
October 1, 1893	46	4½	Oct. 1, 1904	1,000	1,000
July 1, 1894	64	4	July 1, 1905	1,000	1,000
July 1, 1897	181	4	July 1, 1905	1,000	1,000
July 1, 1898	205	4	July 1, 1905	1,000	1,000
July 1, 1901	227	3½	July 1, 1905	1,000	1,000
July 1, 1902	256	3½	July 1, 1905	1,000	1,000
July 1, 1903	280	4	July 1, 1905	1,000	1,000
October 1, 1893	47	4½	Oct. 1, 1905	1,000	1,000
July 1, 1894	65	4	July 1, 1906	1,000	1,000
July 1, 1897	182	4	July 1, 1906	1,000	1,000
July 1, 1898	206	4	July 1, 1906	1,000	1,000
July 1, 1901	228	3½	July 1, 1906	1,000	1,000
July 1, 1902	257	3½	July 1, 1906	1,000	1,000
July 1, 1903	281	4	July 1, 1906	1,000	1,000
October 1, 1893	48	4½	Oct. 1, 1906	1,000	1,000
July 1, 1894	66	4	July 1, 1907	1,000	1,000
July 1, 1897	183	4	July 1, 1907	1,000	1,000
July 1, 1898	207	4	July 1, 1907	1,000	1,000
July 1, 1901	229	3½	July 1, 1907	1,000	1,000
July 1, 1902	258	3½	July 1, 1907	1,000	1,000
July 1, 1903	282	4	July 1, 1907	1,000	1,000
October 1, 1893	49	4½	Oct. 1, 1907	1,000	1,000
July 1, 1894	67	4	July 1, 1908	1,000	1,000
July 1, 1897	184	4	July 1, 1908	1,000	1,000
July 1, 1898	208	4	July 1, 1908	1,000	1,000
	Amount	carried	forward . .	. . .	\$31,000

SEWER LOAN BONDS.—Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount	brought forward . .	. . .		\$31,000
July 1, 1901	230	3½	July 1, 1908	\$1,000	1,000
July 1, 1902	259	3½	July 1, 1908	1,000	1,000
July 1, 1903	283	4	July 1, 1908	1,000	1,000
October 1, 1893	50	4½	Oct. 1, 1908	1,000	1,000
July 1, 1894	68	4	July 1, 1909	1,000	1,000
July 1, 1897	185	4	July 1, 1909	1,000	1,000
July 1, 1898	209	4	July 1, 1909	1,000	1,000
July 1, 1901	231	3½	July 1, 1909	1,000	1,000
July 1, 1902	260	3½	July 1, 1909	1,000	1,000
July 1, 1903	284	4	July 1, 1909	1,000	1,000
October 1, 1893	51	4½	Oct. 1, 1909	1,000	1,000
July 1, 1894	69	4	July 1, 1910	1,000	1,000
July 1, 1897	186	4	July 1, 1910	1,000	1,000
July 1, 1898	210	4	July 1, 1910	1,000	1,000
July 1, 1901	232	3½	July 1, 1910	1,000	1,000
July 1, 1902	261	3½	July 1, 1910	1,000	1,000
July 1, 1903	285	4	July 1, 1910	1,000	1,000
October 1, 1893	52	4½	Oct. 1, 1910	1,000	1,000
July 1, 1894	70	4	July 1, 1911	1,000	1,000
July 1, 1897	187	4	July 1, 1911	1,000	1,000
July 1, 1898	211	4	July 1, 1911	1,000	1,000
July 1, 1901	233	3½	July 1, 1911	1,000	1,000
July 1, 1902	262	3½	July 1, 1911	1,000	1,000
July 1, 1903	286	4	July 1, 1911	1,000	1,000
October 1, 1893	53	4½	Oct. 1, 1911	1,000	1,000
July 1, 1894	71	4	July 1, 1912	1,000	1,000
July 1, 1897	188	4	July 1, 1912	1,000	1,000
July 1, 1898	212	4	July 1, 1912	1,000	1,000
July 1, 1901	234	3½	July 1, 1912	1,000	1,000
	Amount	carried forward .	. . .		\$60,000

SEWER LOAN BONDS.—Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount brought forward . . .				\$60,000
July 1, 1902	263	3½	July 1, 1912	\$1,000	1,000
July 1, 1903	287	4	July 1, 1912	1,000	1,000
July 1, 1894	72	4	July 1, 1913	1,000	1,000
July 1, 1897	189	4	July 1, 1913	1,000	1,000
July 1, 1898	213	4	July 1, 1913	1,000	1,000
July 1, 1901	235	3½	July 1, 1913	1,000	1,000
July 1, 1902	264	3½	July 1, 1913	1,000	1,000
July 1, 1903	288	4	July 1, 1913	1,000	1,000
July 1, 1894	73	4	July 1, 1914	1,000	1,000
July 1, 1897	190	4	July 1, 1914	1,000	1,000
July 1, 1898	214	4	July 1, 1914	1,000	1,000
July 1, 1901	236	3½	July 1, 1914	1,000	1,000
July 1, 1902	265	3½	July 1, 1914	1,000	1,000
July 1, 1903	289	4	July 1, 1914	1,000	1,000
July 1, 1897	191	4	July 1, 1915	1,000	1,000
July 1, 1898	215	4	July 1, 1915	1,000	1,000
July 1, 1901	237	3½	July 1, 1915	1,000	1,000
July 1, 1902	266	3½	July 1, 1915	1,000	1,000
July 1, 1903	290	4	July 1, 1915	1,000	1,000
July 1, 1897	192	4	July 1, 1916	1,000	1,000
July 1, 1898	216	4	July 1, 1916	1,000	1,000
July 1, 1901	238	3½	July 1, 1916	1,000	1,000
July 1, 1902	267	3½	July 1, 1916	1,000	1,000
July 1, 1903	291	4	July 1, 1916	1,000	1,000
July 1, 1897	193	4	July 1, 1917	1,000	1,000
July 1, 1898	217	4	July 1, 1917	1,000	1,000
July 1, 1901	239	3½	July 1, 1917	1,000	1,000
July 1, 1902	268	3½	July 1, 1917	1,000	1,000
	Amount carried forward . . .				\$88,000

SEWER LOAN BONDS.—Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount	brought forward . .	. . .		\$88,000
July 1, 1903	292	4	July 1, 1917	\$1,000	1,000
July 1, 1897	194	4	July 1, 1918	1,000	1,000
July 1, 1898	218	4	July 1, 1918	1,000	1,000
July 1, 1901	240	3½	July 1, 1918	1,000	1,000
July 1, 1902	269	3½	July 1, 1918	1,000	1,000
July 1, 1903	293	4	July 1, 1918	1,000	1,000
July 1, 1897	195	4	July 1, 1919	1,000	1,000
July 1, 1898	219	4	July 1, 1919	1,000	1,000
July 1, 1901	241	3½	July 1, 1919	1,000	1,000
July 1, 1902	270	3½	July 1, 1919	1,000	1,000
July 1, 1903	294	4	July 1, 1919	1,000	1,000
July 1, 1897	196	4	July 1, 1920	1,000	1,000
July 1, 1898	220	4	July 1, 1920	1,000	1,000
July 1, 1901	242	3½	July 1, 1920	1,000	1,000
July 1, 1902	271	3½	July 1, 1920	1,000	1,000
July 1, 1903	295	4	July 1, 1920	1,000	1,000
July 1, 1897	197	4	July 1, 1921	1,000	1,000
July 1, 1898	221	4	July 1, 1921	1,000	1,000
July 1, 1901	243	3½	July 1, 1921	1,000	1,000
July 1, 1902	272	3½	July 1, 1921	1,000	1,000
July 1, 1903	296	4	July 1, 1921	1,000	1,000
July 1, 1897	198	4	July 1, 1922	1,000	1,000
July 1, 1898	222	4	July 1, 1922	1,000	1,000
July 1, 1901	244	3½	July 1, 1922	1,000	1,000
July 1, 1902	273	3½	July 1, 1922	1,000	1,000
July 1, 1903	297	4	July 1, 1922	1,000	1,000
July 1, 1898	223	4	July 1, 1923	1,000	1,000
	Amount	carried forward . .	. . .		\$115,000

SEWER LOAN BONDS.—Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest	When due.	Denomination.	Amount.
	Amount	brought forward . .	. . .		\$115,000
July 1, 1901	245	3½	July 1, 1923	\$1,000	1,000
July 1, 1902	274	3½	July 1, 1923	1,000	1,000
July 1, 1903	298	4	July 1, 1923	1,000	1,000
July 1, 1901	246	3½	July 1, 1924	1,000	1,000
July 1, 1902	275	3½	July 1, 1924	1,000	1,000
July 1, 1903	299	4	July 1, 1924	1,000	1,000
July 1, 1901	247	3½	July 1, 1925	1,000	1,000
July 1, 1902	276	3½	July 1, 1925	1,000	1,000
July 1, 1903	300	4	July 1, 1925	1,000	1,000
July 1, 1901	248	3½	July 1, 1926	1,000	1,000
July 1, 1902	277	3½	July 1, 1926	1,000	1,000
July 1, 1903	301	4	July 1, 1926	1,000	1,000
July 1, 1901	249	3½	July 1, 1927	1,000	1,000
July 1, 1902	278	3½	July 1, 1927	1,000	1,000
July 1, 1903	302	4	July 1, 1927	1,000	1,000
July 1, 1901	250	3½	July 1, 1928	1,000	1,000
July 1, 1903	303	4	July 1, 1928	1,000	1,000
July 1, 1901	251	3½	July 1, 1929	1,000	1,000
July 1, 1901	252	3½	July 1, 1930	1,000	1,000
July 1, 1901	253	3½	July 1, 1931	1,000	1,000
Total amount	of Sewer Loan	Bonds	under debt	limit .	\$135 000

SEWER LOAN BONDS.—Concluded.

ISSUED UNDER AUTHORITY OF CHAPTER 357, ACTS OF 1895, BEYOND THE LIMIT
FIXED BY LAW.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1895	106 to 109	4	July 1, 1904	\$1,000	\$4,000
July 1, 1895	110 to 113	4	July 1, 1905	1,000	4,000
July 1, 1895	114 to 116	4	July 1, 1906	1,000	3,000
July 1, 1895	117 to 119	4	July 1, 1907	1,000	3,000
July 1, 1895	120 to 122	4	July 1, 1908	1,000	3,000
July 1, 1895	123 to 125	4	July 1, 1909	1,000	3,000
July 1, 1895	126 to 128	4	July 1, 1910	1,000	3,000
July 1, 1895	129 to 131	4	July 1, 1911	1,000	3,000
July 1, 1895	132 to 134	4	July 1, 1912	1,000	3,000
July 1, 1895	135 to 137	4	July 1, 1913	1,000	3,000
July 1, 1895	138 to 140	4	July 1, 1914	1,000	3,000
July 1, 1895	141 to 143	4	July 1, 1915	1,000	3,000
July 1, 1895	144 to 146	4	July 1, 1916	1,000	3,000
July 1, 1895	147 to 149	4	July 1, 1917	1,000	3,000
July 1, 1895	150 to 152	4	July 1, 1918	1,000	3,000
July 1, 1895	153 to 155	4	July 1, 1919	1,000	3,000
July 1, 1895	156 to 158	4	July 1, 1920	1,000	3,000
July 1, 1895	159 to 161	4	July 1, 1921	1,000	3,000
July 1, 1895	162 to 164	4	July 1, 1922	1,000	3,000
July 1, 1895	165 to 167	4	July 1, 1923	1,000	3,000
July 1, 1895	168 to 170	4	July 1, 1924	1,000	3,000
July 1, 1895	171 to 173	4	July 1, 1925	1,000	3,000
Total amount	of Sewer Loan	Bonds	under above	Act . .	\$68,000

City Loan Paving Bonds.

ISSUED UNDER AUTHORITY OF CHAPTER 153, ACTS OF 1892, BEYOND
THE LIMIT FIXED BY LAW.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
October 1, 1892	56 to 60	4	Oct 1, 1904	\$1,000	\$5,000
October 1, 1892	61 to 65	4	Oct. 1, 1905	1,000	5,000
October 1, 1892	66 to 70	4	Oct. 1, 1906	1,000	5,000
October 1, 1892	71 to 75	4	Oct. 1, 1907	1,000	5,000
October 1, 1892	76 to 80	4	Oct. 1, 1908	1,000	5,000
October 1, 1892	81 to 85	4	Oct. 1, 1909	1,000	5,000
October 1, 1892	86 to 90	4	Oct. 1, 1910	1,000	5,000
October 1, 1892	91 to 95	4	Oct. 1, 1911	1,000	5,000
October 1, 1892	96 to 100	4	Oct. 1, 1912	1,000	5,000
	Total amount of	Paving	Bonds . . .	. . .	\$45 000

Water Loan Bonds.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1886	257 to 266	4	July 1, 1904	\$1,000	\$10,000
July 1, 1896	6455	4	July 1, 1904	1,000	1,000
October 1, 1889	351 to 352	4	Oct. 1, 1904	1,000	2,000
October 1, 1890	450 to 451	4	Oct. 1, 1904	1,000	2,000
July 1, 1896	6456	4	July 1, 1905	1,000	1,000
October 1, 1889	353 to 355	4	Oct. 1, 1905	1,000	3,000
October 1, 1890	452 to 453	4	Oct. 1, 1905	1,000	2,000
July 1, 1876	30 to 31	5½	July 1, 1906	5,000	10,000
July 1, 1896	6457	4	July 1, 1906	1,000	1,000
October 1, 1889	356 to 358	4	Oct. 1, 1906	1,000	3,000
October 1, 1890	454 to 455	4	Oct. 1, 1906	1,000	2,000
July 1, 1886	267 to 276	4	July 1, 1907	1,000	10,000
July 1, 1888	291	4	July 1, 1907	1,000	1,000
July 1, 1896	6458	4	July 1, 1907	1,000	1,000
October 1, 1889	359 to 361	4	Oct. 1, 1907	1,000	3,000
October 1, 1890	456 to 457	4	Oct. 1, 1907	1,000	2,000
July 1, 1888	292	4	July 1, 1908	1,000	1,000
July 1, 1896	6459	4	July 1, 1908	1,000	1,000
October 1, 1889	362 to 364	4	Oct. 1, 1908	1,000	3,000
October 1, 1890	458 to 459	4	Oct. 1, 1908	1,000	2,000
July 1, 1888	293	4	July 1, 1909	1,000	1,000
October 1, 1889	365 to 367	4	Oct. 1, 1909	1,000	3,000
October 1, 1890	423 to 424	4	Oct. 1, 1909	1,000	2,000
July 1, 1888	294	4	July 1, 1910	1,000	1,000
October 1, 1889	368 to 370	4	Oct. 1, 1910	1,000	3,000
October 1, 1890	426 to 427	4	Oct. 1, 1910	1,000	2,000
July 1, 1888	295	4	July 1, 1911	1,000	1,000
October 1, 1889	371 to 373	4	Oct. 1, 1911	1,000	3,000
October 1, 1890	428 to 429	4	Oct. 1, 1911	1,000	2,000
July 1, 1888	296	4	July 1, 1912	1,000	1,000
October 1, 1889	374 to 376	4	Oct. 1, 1912	1,000	3,000
October 1, 1890	430 to 431	4	Oct. 1, 1912	1,000	2,000
	Amount	carried	forward . .	. . .	\$85,000

WATER LOAN BONDS.—Concluded.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount	brought	forward . .	. . .	\$85,000
July 1, 1888	297	4	July 1, 1913	\$1,000	1,000
October 1, 1889	377 to 379	4	Oct. 1, 1913	1,000	3,000
October 1, 1890	432 to 433	4	Oct. 1, 1913	1,000	2,000
July 1, 1888	298	4	July 1, 1914	1,000	1,000
October 1, 1889	380 to 382	4	Oct. 1, 1914	1,000	3,000
October 1, 1890	434 to 435	4	Oct. 1, 1914	1,000	2,000
July 1, 1888	299	4	July 1, 1915	1,000	1,000
October 1, 1889	383 to 384	4	Oct. 1, 1915	1,000	2,000
October 1, 1890	436 to 437	4	Oct. 1, 1915	1,000	2,000
July 1, 1888	300	4	July 1, 1916	1,000	1,000
October 1, 1889	385 to 386	4	Oct. 1, 1916	1,000	2,000
October 1, 1890	438 to 439	4	Oct. 1, 1916	1,000	2,000
July 1, 1888	301	4	July 1, 1917	1,000	1,000
October 1, 1889	387 to 388	4	Oct. 1, 1917	1,000	2,000
October 1, 1890	440 to 441	4	Oct. 1, 1917	1,000	2,000
July 1, 1888	302	4	July 1, 1918	1,000	1,000
October 1, 1889	389 to 390	4	Oct. 1, 1918	1,000	2,000
October 1, 1890	442 to 443	4	Oct. 1, 1918	1,000	2,000
October 1, 1889	391 to 392	4	Oct. 1, 1919	1,000	2,000
October 1, 1890	444 to 445	4	Oct. 1, 1919	1,000	2,000
October 1, 1890	446 to 447	4	Oct. 1, 1920	1,000	2,000
	Total amount	of	Water Loan	Bonds .	\$123,000

Metropolitan Park Assessment Loan Bonds.

ISSUED UNDER AUTHORITY OF CHAPTER 225, ACTS OF 1902, BEYOND
THE LIMIT FIXED BY LAW.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1902	2	3½	July 1, 1904	\$1,000	\$1,000
July 1, 1902	3	3½	July 1, 1905	1,000	1,000
July 1, 1902	4	3½	July 1, 1906	1,000	1,000
July 1, 1902	5	3½	July 1, 1907	1,000	1,000
July 1, 1902	6	3½	July 1, 1908	1,000	1,000
July 1, 1902	7	3½	July 1, 1909	1,000	1,000
July 1, 1902	8	3½	July 1, 1910	1,000	1,000
July 1, 1902	9	3½	July 1, 1911	1,000	1,000
July 1, 1902	10	3½	July 1, 1912	1,000	1,000
July 1, 1902	11	3½	July 1, 1913	1,000	1,000
July 1, 1902	12	3½	July 1, 1914	1,000	1,000
July 1, 1902	13	3½	July 1, 1915	1,000	1,000
July 1, 1902	14	3½	July 1, 1916	1,000	1,000
July 1, 1902	15	3½	July 1, 1917	1,000	1,000
July 1, 1902	16	3½	July 1, 1918	1,000	1,000
July 1, 1902	17	3½	July 1, 1919	1,000	1,000
July 1, 1902	18	3½	July 1, 1920	1,000	1,000
July 1, 1902	19	3½	July 1, 1921	1,000	1,000
July 1, 1902	20	3½	July 1, 1922	1,000	1,000
July 1, 1902	21	3½	July 1, 1923	1,000	1,000
July 1, 1902	22	3½	July 1, 1924	1,000	1,000
July 1, 1902	23	3½	July 1, 1925	1,000	1,000
July 1, 1902	24	3½	July 1, 1926	1,000	1,000
July 1, 1902	25	3½	July 1, 1927	1,000	1,000
July 1, 1902	26	3½	July 1, 1928	1,000	1,000
July 1, 1902	27	3½	July 1, 1929	1,000	1,000
Total amount	of Metropolitan	Park As	essment Loan	Bonds	\$26,000

Recapitulation.

City Loan Bonds	\$1,108,500 00	
Sewer Loan Bonds	135,000 00	
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Total amount of Funded Debt within the limit provided by law		\$1,243,500 00
Sewer Loan Bonds, issued under Chapter 357, Acts of 1895	\$68,000 00	
City Loan Paving Bonds, issued under Chapter 153, Acts of 1892	45,000 00	
Metropolitan Park Assessment Loan Bonds, issued under Chapter 325, Acts of 1902	26,000 00	
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Total amount of Funded Debt outside of the limit allowed by law, issued under special Acts		139,000 00
Water Loan Bonds		123,000 00
		<hr/>
Total amount of Funded Debt		\$1,505,500 00

TABLE C.—STATEMENT OF ACCOUNTS, SHOWING APPROPRIATIONS, EXPENDITURES, ETC., TO DECEMBER 31, 1903.**Appropriations.**

CREDIT.	
Taxes, amount assessed for municipal purposes	\$830,051 77
Property and Debt Balance, amount provided by issue of bonds	197,500 00
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	\$1,027,551 77
DEBIT.	
Appropriations from tax levy:—	
Assessors	\$10,075 00
City Auditor	725 00
City Clerk	6,350 00
City Engineer	11,900 00
City Messenger	2,000 00
City Solicitor	2,300 00
City Treasurer	9,000 00
Clerk of Committees and Departments	4,200 00
Contingent Fund	3,800 00
Election Expenses:—	
City Clerk	750 00
Commissioner of Public Buildings	1,000 00
Pay of Election Officers	1,700 00
Registrars of Voters	1,600 00
Electrical Department	7,000 00
Excess and Deficiency	2,101 77
Executive Department	3,900 00
Fire Department	35,000 00
Health Department	39,000 00
Highways:—	
Maintenance	2,100 00
Removal of Brown-tail Moths	3,000 00
Watering Streets	1,000 00
Inspection of Buildings	4,100 00
Interest	52,000 00
Military Aid	500 00
Police	31,000 00
Printing and Stationery	2,500 00
Public Buildings Maintenance:—	
City Hall	3,800 00
City Hall Annex	800 00
Fire Department	4,400 00
Health Department	250 00
Highways	200 00
Police	2,600 00
Public Grounds	75 00
Public Library	3,800 00
Schoolhouses	51,170 00
Sewer Department	125 00
Support of Poor	600 00
Water Department	100 00
Public Grounds	10,500 00
Public Library	14,800 00
Reduction of Funded Debt	118,000 00
School Contingent	24,000 00
School Teachers' Salaries	238,000 00
	<hr/>
Amount carried forward	\$711,821 77

Amount brought forward	\$711,821 77	
Sealer of Weights and Measures	1,200 00	
Sidewalks Maintenance	6,000 00	
Soldiers' Relief	16,000 00	
Somerville Hospital	5,000 00	
Street Lights	63,900 00	
Support of Poor:—		
City Home	4,500 00	
Miscellaneous	21,630 00	
		\$830,051 77
Appropriations on Funded Debt account:—		
Public Buildings Construction:—		
Addition to Bingham School	\$34,500 00	
Engine House in Ward Two	43,000 00	
Historical Building and Observatory on Prospect Hill	7,000 00	
Martha Perry Lowe School	18,000 00	
Public Grounds:—		
Prospect Hill Park, Completion	1,000 00	
Improvement of Playground, Poplar corner Joy Street	250 00	
Highways:—		
Construction	15,000 00	
Paved Gutters and Crossings	20,600 00	
Thorndike-street Subway	3,800 00	
Renewal of Funded Debt	18,000 00	
Sewers Construction	25,000 00	
Sidewalks Construction	11,350 00	
		197,500 00
		<u>\$1,027,551 77</u>

Assessors.

CREDIT.

Appropriations, from Taxes, 1903	\$10,075 00
Transferred to Excess and Deficiency account, balance unused	2 17
	<u>\$10,072 83</u>

DEBIT.

(Expenditures.)

Cash, paid Albert B. Fales, salary as chair- man of the board of assessors	\$2,000 00
Benjamin F. Thompson, assessor	800 00
Nathan H. Reed, assessor	800 00
Harry A. True, assessor	800 00
Jesse J. Underhill, assessor	800 00
Fred B. Clapp, assistant assessor	250 00
William Henry Smith, assistant assessor	250 00
Sewall M. Rich, assistant assessor	250 00
James Wilson, assistant assessor	250 00
Gertrude G. Kendall, first assistant clerk car fares	700 00 8 10
Jennie L. Jones, second assistant clerk	600 00
car fares	19 70
Mabel E. Hall, third assistant clerk	500 00
Raymond A. Farr, clerical services	52 00
Amount carried forward	<u>\$8,079 80</u>

Amount brought forward	\$8,079 80	
George H. Crosby, clerical services	54 00	
Charles P. Palmer, clerical services	58 00	
Theodore H. Locke, clerical services	52 00	
Florence H. Plimpton, clerical services	153 34	
Bessie L. L. Crosby, clerical services	155 34	
Lillian J. Stearns, clerical services	173 78	
Clara L. Fitch, clerical services	54 67	
Eva V. Tukey, clerical services	153 34	
Aunita N. Fales, clerical services	103 11	
Somerville Journal Co., printing	755 13	
Wesley A. Maynard, advertising	8 00	
W. A. Greenough & Co., directory	3 50	
Somerville Post-office, postage	26 00	
Yawman, Erbe Mfg. Co., files	1 60	
S. Ward Co., stationery	172 73	
Pneumatic Hand Stamp Co., stationery	2 25	
L. E. Clayton, stationery	40	
New England Telephone and Telegraph Co., service	53 84	
Joseph Gridley, lunch	9 00	
Howard Lowell & Son, carriage hire	3 00	
		<u>\$10,072 83</u>

Cash.**CREDIT.**

Payments as follows:—

Assessors	\$10,072 83
City Auditor	706 60
City Clerk	7,946 02
City Engineer	11,719 40
City Messenger	1,947 40
City Solicitor	2,252 90
City Treasurer	14,001 60
Clerk of Committees and Departments	4,117 78
Commonwealth of Massachusetts	92,027 14
Contagious Disease Hospital and Land Contiguous to City Home Property	400 00
Contingent Fund	4,331 69
County of Middlesex	57,308 97
Coupons unpaid	57,575 00
Election Expenses:—	
City Clerk	768 37
Commissioner of Public Buildings	978 95
Pay of Election Officers	1,708 00
Registrars of Voters	1,568 26
Electrical Department	6,943 16
Electrical Department, Steam Fire Alarm Whistle	510 00
Executive Department	3,798 73
Fire Department	66,203 17
Fire Department, New Steam Fire Engine	5,375 00
Health Department	47,189 01
Highway Betterment Assessments	68 96
Highways:—	
Construction	20,384 55
Maintenance	78,187 24
Paved Gutters and Crossings	13,412 67
Paving Washington Street	212 46
Removing Brown-tail Moths	3,786 80
Amount carried forward	<u>\$515,502 66</u>

Amount brought forward	\$515,502 66
Thorndike-street Subway	2,008 93
Watering Streets	20,515 72
Inspection of Buildings	4,045 88
Interest	20,134 50
Joseph F. Wilson Memorial	2,375 00
Military Aid	1,585 92
Overlay and Abatement	144 28
Police	71,433 35
Printing and Stationery	1,826 00
Prospect Hill Park, Completion	1,205 19
Public Buildings Construction:—	
Addition to Bingham School	17,280 44
Engine House in Ward Two	15,910 69
Historical Building and Observatory on Prospect Hill	8,706 16
Schoolhouse in Ward One	502 55
Schoolhouse in Ward Seven	42,544 71
Public Buildings Maintenance:—	
Armory	676 83
City Hall	4,626 49
City Hall Annex	818 40
Fire Department	4,350 73
Health Department	457 21
Highways	291 84
Police	3,474 79
Public Grounds	58 11
Public Library	4,657 13
Schoolhouses	54,671 98
Sewer Department	65 10
Support of Poor	1,067 74
Water Department	214 95
Public Grounds	11,451 19
Public Grounds, Improvement Playground, Poplar corner Joy Street	250 00
Public Library	18,793 04
Public Library, Isaac Pitman Fund, Income, Art	89 41
Public Library, Isaac Pitman Fund, Income, Poetry	47 14
Reduction of Funded Debt	169,000 00
School Contingent	25,721 55
School Teachers' Salaries	238,163 61
Sealer of Weights and Measures	1,430 03
Sewers, Construction	30,862 82
Sewers, Maintenance	13,182 55
Sidewalks, Construction	21,855 39
Sidewalks Maintenance	7,223 37
Soldiers' Burials	280 00
Soldiers' Relief	19,584 27
Somerville Hospital	5,000 00
State Aid	13,905 50
Street Lights	63,993 51
Support of Poor, City Home	8,119 22
Support of Poor, Miscellaneous	30,478 53
Temporary Loans	780,000 00
Water Maintenance	51,451 30
Water Works, Abatements on Water Charges	859 25
Water Works Extension	14,167 21
Balance to debit of account, 1904	61,714 58
	<hr/>
	\$2,388,776 75

	DEBIT.	
Balance from 1902		\$27,177 62
Receipts as follows:—		
City Clerk	1,933 66	
City Engineer	280 33	
City Treasurer	4,758 81	
Commonwealth of Massachusetts	2,082 50	
Contingent Fund	661 27	
Electrical Department	51 50	
Electrical Department, Steam Fire Alarm Whistle	10 00	
Fire Department	356 00	
Funded Debt	197,500 00	
Health Department	3,358 81	
Highway Betterment Assessments	10,243 81	
Highways:—		
Boston-avenue Bridge	54 42	
Construction Munroe Street and Stone Avenue	5 00	
Maintenance	17,142 96	
Paved Gutters and Crossings	2,289 30	
Removing Brown-tail Moths	191 09	
Watering Streets	166 36	
Inspection of Buildings	47 50	
Interest	12,067 25	
Metered Water Charges	14,019 15	
Military Aid	10 00	
Overlay and Abatement	30 00	
Police	5,677 50	
Prospect Hill Park, Completion	72 25	
Public Buildings Construction:—		
Engine House in Ward Two	546 00	
Historical Building and Observatory on Prospect Hill	603 13	
Public Buildings Maintenance:—		
Highways	240 00	
Police	1,233 33	
Public Grounds	23 56	
Schoolhouses	1,152 50	
Support of Poor	175 00	
Public Grounds	951 55	
Public Library	3,995 71	
Public Library, Isaac Pitman Fund, Income, Art	160 00	
Public Library, Isaac Pitman Fund, Income, Poetry	40 00	
Reduction of Funded Debt	3,672 05	
School Contingent	165 26	
Sealer of Weights and Measures	396 77	
Sewer Assessments	2,988 66	
Sewers Construction	182 47	
Sewers Maintenance	892 27	
Sidewalk Assessments	12,037 50	
Sidewalks, Construction	793 55	
Sidewalks, Maintenance	38 02	
Soldiers' Relief	307 46	
State Aid	30 00	
Amount carried forward		<u>\$330,741 88</u>

Amount brought forward	\$330,741 88	
Street Lights	54 00	
Support of Poor, City Home	3,589 98	
Support of Poor, Miscellaneous	6,140 61	
Taxes	1,009,478 91	
Temporary Loans	815,000 00	
Water Maintenance	12,374 99	
Water Service Assessments	2,527 28	
Water Works Extension	109 93	
Water Works Income	208,689 17	
	<hr/>	\$2,388,776 75

City Auditor.

CREDIT.

Appropriations, from Taxes, 1903	\$725 00	
Transferred to Excess and Deficiency account, balance unused	18 40	
	<hr/>	\$706 60

DEBIT.

(Expenditures.)

Cash, paid Charles S. Robertson, salary as auditor	\$700 00	
disbursements	1 65	
Thomas Groom & Co., stationery	3 40	
C. C. Hoffman & Co., stamp and pads	1 55	
	<hr/>	\$706 60

City Clerk.

CREDIT.

Appropriations, from Taxes, 1903	\$6,350 00	
Transferred to Excess and Deficiency account, balance unused	337 64	
	<hr/>	\$6,012 36

Receipts:—

Cash, received of George I. Vincent, City Clerk:—

Recording mortgages	\$442 25	
Dog licenses	373 60	
Marriage certificates	346 50	
Licenses for billiards and pool	132 00	
Licenses for amusements	23 00	
Licenses for street musicians	11 00	
Copies of records	37 25	
Junk licenses	350 00	
Licenses for slaughtering	5 00	
Licenses for private detectives	20 00	
Liquor licenses	30 00	
Licenses for sale of fireworks	56 00	
Licenses for intelligence offices	26 00	
Auctioneers' licenses	46 00	
Licenses to keep skating rink	10 00	
Junk badges	1 00	
Interest on deposits	24 06	
	<hr/>	1,933 66
		<hr/>
		\$7,946 02

DEBIT.

(Expenditures.)

Cash, paid George I. Vincent, salary as city clerk	\$2,700 00	
disbursements	3 25	
Frederic W. Cook, assistant city clerk	1,400 00	
Clara B. Snow, first assistant	700 00	
Edith A. Woodman, second assistant	600 00	
Mary A. Sleeper, third assistant	550 00	
Alice M. Vincent, fourth assistant	500 00	
Elizabeth S. Webster, census of births	49 60	
Charles E. Davis, census of births	47 00	
Mary E. Lyman, census of births	32 00	
Walter H. Sibley, census of births	31 40	
John F. Kennard, census of births	24 90	
Clara Z. Elliott, census of births	20 00	
Sundry persons, return of births	335 25	
Sundry undertakers, reporting deaths	142 75	
Benjamin F. Allen, junk badge	65	
Allen, Doane & Co., junk badge	5 50	
Whitney & Snow, hardware	65	
Sprague & Hathaway Co., picture frames	3 25	
T. H. Ball, mortgage forms	3 36	
McGrath & Woodley, books and stationery	81 25	
S. Ward Co., stationery	53 15	
W. A. Greenough & Co., directory	3 50	
Sampson, Murdock & Co., directory	6 00	
F. S. Blanchard & Co., Mass. year book	3 00	
Carter's Ink Co., ink	2 26	
W. L. Julian, advertising	8 63	
Somerville Journal Co., printing	300 78	
Webcowit Press, printing	2 25	
John Donnelly & Sons, bill posting	3 00	
Smith Premier Typewriter Co., supplies	2 07	
Duren & Kendall, typewriter	165 00	
Pneumatic Hand Stamp Co., stamp	1 91	
Somerville Post-office, postage	76 00	
New England Telephone & Telegraph Co., service	71 25	
American Express Co., expressing	16 41	
		<u>\$7,946 02</u>

City Engineer.

CREDIT.

Appropriations, from Taxes, 1903	\$11,900 00	
Amounts transferred and unused:—		
Amounts transferred to Public Buildings Construction, Historical Building and Observatory on Prospect Hill account	\$303 03	
Excess and Deficiency account, balance unused	157 90	
		<u>460 93</u>
Amount carried forward		<u>\$11,439 07</u>

Amount brought forward		\$11,439 07
Receipts:—		
Cash, received of City of Medford, plans, etc.	\$120 23	
Boston Elevated Railway Co., engineer- ing services	107 80	
Commonwealth of Massachusetts, en- gineering services	20 00	
Abutters on Hillside park, plan	10 00	
Rosetha J. Jones, et al., plan	8 00	
Abutters on Pearl street, plan	5 00	
Philip Tevlin, et al., plan	5 00	
		276 03
Stock and labor billed other departments:—		
Sewer Construction account		3 75
		<u>\$11,718 85</u>

DEBIT.

(Expenditures.)

Cash, paid Ernest W. Bailey, salary as city engineer	\$2,800 00
Engineer's assistants	8,101 91
Engineer's assistants, car fares	203 92
John J. Murray, disbursements	5 65
Wadsworth, Howland & Co., stationery	\$56 63
	55
	<u>56 08</u>
Thomas Groom & Co., stationery	25 82
S. Ward Co., stationery	2 79
M. L. Vinal, stationery	4 00
Library Bureau, cards	2 00
Charles E. Moss, paper	2 85
Stimpson & Co., paper	9 87
Frost & Adams, crayons	2 03
A. C. Libbey & Sons, binding	32 00
W. W. White & Co., binding and mount- ing	7 25
George O. W. Servis, photographs . . .	7 50
Sprague & Hathaway Co., frames . . .	7 10
George H. Walker & Co., maps	25 00
Municipal Journal Publishing Co., sub- scription	3 00
H. C. Dimond & Co., stamp	1 34
Somerville Post-office, postage	13 50
New England Telephone & Telegraph Co., service	71 79
G. G. Ledder, repairing tools	35 45
Charles L. Underhill, repairing tools . .	8 35
I. H. Brown Moulding Co., milling . . .	2 55
H. Wood, brass strips	1 50
Whitney & Snow, hardware	18 66
Wilbur P. Rice, stakes	11 25
J. H. Brooks, cotton	2 40
E. R. Perham, expressing	40
Glines & Co., expressing	25
American Express Co., expressing . . .	45
	<u>\$11,466 66</u>
Sewer Maintenance account, setting stone bounds	252 19
	<u><u>\$11,718 85</u></u>

City Messenger.

CREDIT.

Appropriations, from Taxes, 1903 . . .	\$2,000 00
Transferred to Excess and Deficiency account, balance unused	52 60
	<hr/>
	\$1,947 40

DEBIT.

(Expenditures.)

Cash, paid Jairus Mann, salary as city messenger	\$1,500 00
disbursements	5 40
S. C. & A. L. Jameson, board of horse . . .	283 00
William Buckley, horseshoeing	18 75
Morgan & Bond, fur robe	15 00
C. L. Underhill, repairing buggy	2 80
D. J. Bennett, repairing buggy	18 90
I. B. Walker, repairing buggy	20 45
L. H. Brown, carriage hire	69 50
Howard Lowell & Son, carriage hire	5 00
Charles L. Ellis, assistance	1 00
Thomas Groom & Co., stationery	4 50
Robert S. Robson, stamps	3 10
	<hr/>
	\$1,947 40

City Solicitor.

CREDIT.

Appropriations, from Taxes, 1903 . . .	\$2,300 00
Transferred to Excess and Deficiency account, balance unused	47 10
	<hr/>
	\$2,252 90

DEBIT.

(Expenditures.)

Cash, paid Frank W. Kaan, salary as city solicitor	1,800 00
office rent	150 00
disbursements	142 90
Dennis Kelley, salary as claim agent . . .	100 00
disbursements	42 00
Benjamin F. Freeman, photographs	18 00
	<hr/>
	\$2,252 90

City Treasurer.

CREDIT.

Appropriations, from Taxes, 1903 . . .	\$9,000 00
Transferred from Excess and Deficiency account, balance overdrawn	228 90
	<hr/>
	\$9,228 90

Receipts:—

Commonwealth of Massachusetts, fees for collecting National Bank Tax	13 89
Cash, received of sundry persons, costs on taxes and assessments	4,758 81
	<hr/>
	\$14,001 60

DEBIT.

(Expenditures.)

Cash, paid James F. Beard, salary as city treasurer	\$3,000 00
disbursements	12 22
Charles L. Ellis, deputy collector of taxes	1,350 00
disbursements	20 25
Beulah M. Peirce, first assistant	1,000 00
Louise B. McLaughlin, second assistant	700 00
Florence M. Grow, third assistant	600 00
Marion C. Kendall, fourth assistant	500 00
Winnifred P. Briggs, clerical services	280 01
Susan L. Briggs, clerical services	202 67
Lilla A. Johnson, clerical services	138 67
Inez M. Felt, clerical services	53 33
Octavia M. Perkins, clerical services	44 00
Marcella F. Kendall, clerical services	29 33
Josephine M. Briggs, clerical services	18 66
Malcolm E. Sturtevant, fees for collecting delinquent taxes	432 24
Theodore H. Locke, fees for collecting delinquent taxes	262 50
Charles E. Davis, fees for collecting delinquent taxes	233 00
F. W. Hopkins, fees for collecting delinquent taxes	240 99
James Watters, fees for collecting delinquent taxes	147 50
C. P. Sanborn, fees for collecting delinquent taxes	53 50
John J. Kenney, fees for collecting delinquent taxes	26 10
American Surety Co. of New York, treasurer's bond	160 00
Somerville Journal Co., printing	3,173 83
Webcowit Press, printing	448 75
Bufford Sons Engraving Co., engraving bonds	330 00
Thomas Groom & Co., stationery	325 68
McGrath & Woodley, stationery	52 50
A. W. Babbitt, check registers	16 20
Library Bureau, cards	3 00
Dennison Mfg. Co., seals	1 60
The Carter's Ink Co., ink	2 25
W. A. Greenough & Co., directories	7 00
Sampson, Murdock & Co., directory	6 00
Registry of Deeds, recording documents	24 55
Somerville National Bank, clearing house charges	3 15
Bunker Hill National Bank, clearing house charges	17
National Security Bank, clearing house charges	1 07
New England Telephone and Telegraph Co., service	77 78
Somerville Post-office, postage	7 00
Yale & Towne Mfg. Co., cleaning time lock	15 00
Amount carried forward	<u>\$14,000 50</u>

Amount brought forward	\$14,000 50	
Jairus Mann, disbursements	20	
American Express Co., expressing	60	
E. R. Perham, expressing	15	
Glines & Co., expressing	15	
	<hr/>	\$14,001 60

Clerk of Committees and Departments.

CREDIT.

Appropriations, from Taxes, 1903	\$4,200 00
Transferred to Excess and Deficiency account, balance unused ,	82 22

\$4,117 78

DEBIT.

(Expenditures.)

Cash, paid William P. Mitchell, salary as clerk of committees and departments	\$2,000 00	
Howard E. Wemyss, assistant	800 00	
Lucia A. Manning, assistant	600 00	
Nannee M. Sargent, assistant	500 00	
A. C. Libby & Sons, stationery	22 50	
Thorpe & Martin Co., stationery	20 13	
W. A. Greenough & Co., directory	3 50	
Somerville Post-office, postage	111 00	
Somerville Journal Co., printing	58 50	
Underhill Hardware Co., oil stone, etc. . . .	1 35	
Hill & Holt, opening desk	50	
Glines & Co., expressing	30	
	<hr/>	\$4,117 78

Contagious Disease Hospital and Land Contiguous to City Home Property.

CREDIT.

Amount transferred from Reduction of Funded Debt account	\$400 00
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DEBIT.

(Expenditures.)

Cash, paid Heirs of Levi Russell, Addie Russell, Assignee, on account of purchase of land taken in 1901 for Almshouse	\$400 00
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Contingent Fund.

CREDIT.

Appropriations, from Taxes, 1903	\$3,800 00
Transferred to Excess and Deficiency account, balance unused	129 58
	<hr/>
	\$3,670 42

Receipts:—

Cash, received of Fulton O'Brion, fees for weighing	\$12 77	
Sundry persons, licenses to peddle	275 00	
Sundry persons, druggists' licenses	30 00	
	<hr/>	317 77
		<hr/>
		\$3,988 19

DEBIT.

• (Expenditures.)

Cash, paid E. F. Hicks, refreshments . . .	\$245 00
George B. Phillips, refreshments . . .	8 50
Charles H. Wood, refreshments . . .	4 70
S. H. Thompson, refreshments . . .	4 00
George E. Elliott, turkeys . . .	191 76
F. H. Hosmer & Co., turkeys . . .	180 00
W. S. Jones & Co., turkeys . . .	171 84
Burbeck Bros., turkeys . . .	159 48
Kenny & Clark, carriage hire . . .	54 00
Howard Lowell & Son, carriage hire . . .	36 00
L. H. Brown, carriage hire . . .	22 00
J. H. Cummings, ringing bell . . .	3 00
J. H. Colbath, ringing bell . . .	3 00
George W. Littlefield, ringing bell . . .	3 00
Ashbury Strahan, ringing bell . . .	3 00
Everett A. Maynard, ringing bell . . .	2 00
J. G. Anthoine, rent of hall . . .	20 00
Simon Connor & Co., rent of hall . . .	18 00
Somerville Journal Co., printing and ad- vertising . . .	110 75
J. Frank Facey, printing . . .	10 50
William L. Julian, advertising . . .	5 00
Suffolk Engraving & Electrottype Co., color plate . . .	7 78
M. A. Mann, addressing invitations . . .	5 00
Whitney & Snow, house numbers . . .	23 21
A. M. Prescott, moving furniture . . .	3 00
Jackson Caldwell & Co., moving goods Chairs, etc. . .	30 00 57 00
Company K, Eighth Regiment, M. V. M., rifle practice . . .	250 00
Company M, Eighth Regiment, M. V. M., rifle practice . . .	250 00
William Read & Sons, ammunition . . .	14 75
Veteran Association, Company M, Eighth Regiment Massachusetts Infantry, Spanish-American War, decorating graves . . .	25 00
Willard C. Kinsley Post, 139, G. A. R., contribution for observance of Memo- rial day . . .	400 00
Somerville Battalion, M. V. M., armory dedication . . .	300 00
John P. Fiske, use of chairs . . .	13 50
Benjamin F. Freeman, firing salute . . .	15 00
Alfred J. Lill & Co., medals . . .	200 00
Masten & Wells Fireworks Mfg. Co., fireworks . . .	450 00
First Corps Cadet Band, services . . .	250 00
Smith, Patterson & Co., cups . . .	16 00
Whitehead & Hoag Co., badges . . .	9 22
Commonwealth of Massachusetts, 25 per cent. of liquor licenses . . .	7 50
M. E. Youngjohn, supplies . . .	1 32
Underhill Hardware Co., hardware . . .	85
Pettingell-Andrews Co., electrical sup- plies . . .	43 91
Amount carried forward . . .	\$3,628 57

Amount brought forward	\$3,628 57	
H. G. White, electrical supplies	17 00	
Electric Gas Lighting Co., electrical supplies	8 04	
Henry A. Wheeler & Co., tent hire	120 00	
New England Decorating Co., decorating	15 00	
Harry E. Stiles, band	82 20	
Harris P. Tibbetts, carpentering	27 85	
Somerville Post-office, postage	86 00	
C. M. Blake, newspapers	3 53	
		<u>\$3,988 19</u>

(Transferred to Public Buildings Maintenance, Armory account, \$343.50.)

Coupons Unpaid.

CREDIT.

Balance of coupons unpaid January 1, 1903		\$25,942 50
Coupons maturing April 1, 1903:—		
Water Loan, \$80,000, six months at 4 per cent.	\$1,600 00	
Sewer Loan, \$9,000, six months at 4½ per cent.	202 50	
Paving Loan, \$50,000, six months at 4 per cent.	1,000 00	
City Loan, \$9,000, six months at 4 per cent.	180 00	
City Loan, \$35,000, six months at 4½ per cent.	787 50	
		<u>3,770 00</u>
Coupons maturing July 1, 1903:—		
City Loan, \$359,000, six months, 3½ per cent.	\$6,282 50	
City Loan, \$663,000, six months, 4 per cent.	13,260 00	
Sewer Loan, \$54,000, six months, 3½ per cent.	945 00	
Sewer Loans, \$125,000, six months, 4 per cent.	2,500 00	
Metropolitan Park Assessment Loan, \$27,000, six months, at 3½ per cent.	472 50	
Water Loan, \$56,000, six months, 4 per cent.	1,120 00	
Water Loan, \$10,000, six months, 5½ per cent.	275 00	
		<u>24,855 00</u>
Coupons maturing October 1, 1903:—		
City Loan, \$9,000, six months, 4 per cent.	\$180 00	
City Loan, \$35,000, six months, 4½ per cent.	787 50	
Sewer Loan, \$9,000, six months, 4½ per cent.	202 50	
Paving Loan, \$50,000, six months, 4 per cent.	1,000 00	
Water Loan, \$80,000, six months, 4 per cent.	1,600 00	
		<u>3,770 00</u>
Coupons maturing January 1, 1904:—		
City Loan, \$329,000, six months, 3½ per cent.	\$5,757 50	
		<u>\$5,757 50</u>
Amounts carried forward	\$5,757 50	\$58,337 50

Amounts brought forward	\$5,757 50	\$58,337 50
City Loan, \$733,500, six months, 4 per cent.	14,670 00	
Sewer Loan, \$52,000, six months, 3½ per cent.	910 00	
Sewer Loan, \$143,000, six months, 4 per cent.	2,860 00	
Metropolitan Park Assessment Loan, \$26,000, six months, at 3½ per cent.	455 00	
Water Loan, \$37,000, six months, 4 per cent.	740 00	
Water Loan, \$10,000, six months, 5½ per cent.	275 00	
	<hr/>	25,667 50
		<hr/>
		\$84,005 00

DEBIT.

Cash, paid coupons	\$57,575 00	
Interest account, charged by error in 1901	45 00	
Coupons of 1903 unpaid	26,385 00	
	<hr/>	\$84,005 00
		<hr/>

County of Middlesex.

CREDIT.

Appropriations, from Taxes, 1903	\$57,308 97
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DEBIT.

(Expenditures.)

Cash, paid County Tax	\$57,308 97
	<hr/>
	<hr/>

Election Expenses, City Clerk.

CREDIT.

Appropriations, from Taxes, 1903	\$750 00
Transferred from Excess and Deficiency account, balance overdrawn	18 37
	<hr/>
	\$768 37

DEBIT.

(Expenditures.)

Cash, paid Somerville Journal Co., printing	\$438 11
Wesley A. Maynard, advertising	20 56
The Heliotype Printing Co., maps	72 50
Sprague & Hathaway Co., mounting maps	6 40
S. Ward Co., stationery	13 35
McGrath & Woodley, book	12 00
Commonwealth of Massachusetts, counting apparatus	5 00
John Donnelly & Sons, posting	20 00
Cotton & Gould, crayons	10 50
Allen, Doane & Co., hand stamps	5 00
Whitney & Snow, hardware	3 05
George H. Dickerman & Co., box	1 00
Robert S. Robson, repairing ballot boxes	32 50
H. Wood, lock work	1 50
Eugene Mead, carriage hire	63 00
L. H. Brown, carriage hire	63 00
William Kirkland, teaming	75
American Express Co., expressing	15
	<hr/>
	<hr/>
	\$768 37

Election Expenses, Commissioner of Public Buildings.

CREDIT.

Appropriations, from Taxes, 1903	\$1,000 00
Transferred to Excess and Deficiency account, balance unused	21 05
	<hr/>
	\$978 95

DEBIT.

(Expenditures.)

Cash, paid Harris P. Tibbetts, carpentering	\$781 55
Philip Eberle, rent of hall	75 00
Odd Fellows Building Association, rent of hall	60 00
Simon Connor & Co., rent of hall	40 00
Warren E. Locke, Agent, rent of hall	16 00
Electric Gas Lighting Co., electrical supplies	2 70
Copithorne Brothers, oil	3 70
	<hr/>
	\$978 95

Election Expenses, Pay of Election Officers.

CREDIT.

Appropriations, from Taxes, 1903	\$1,700 00
Transferred from Excess and Deficiency account, balance overdrawn	8 00
	<hr/>
	\$1,708 00

DEBIT.

(Expenditures.)

Cash, paid election officers	\$1,708 00
	<hr/>

Election Expenses, Registrars of Voters.

CREDIT.

Appropriations, from Taxes, 1903	\$1,600 00
Transferred to Excess and Deficiency account, balance unused	31 74
	<hr/>
	\$1,568 26

DEBIT.

(Expenditures.)

Cash, paid Charles P. Lincoln, salary as registrar	\$200 00
Charles E. Parks, salary as registrar	200 00
Levi F. S. Davis, salary as registrar	200 00
George I. Vincent, salary as registrar	200 00
Frederic W. Cook, clerical services	42 00
F. E. Merrill, clerical services	36 00
Charles G. Brett, clerical services	33 00
George E. Davis, clerical services	33 00
Fred E. Warren, clerical services	6 00
Charles E. Davis, clerical services	1 50
Somerville Journal Co., printing	478 94
Wesley A. Maynard, advertising	23 75
	<hr/>
Amount carried forward	\$1,454 19

Amount brought forward	\$1,454 19	
John Donnelly & Sons, posting	35 00	
Thomas Groom & Co., binding lists	29 25	
McGrath & Woodley, books	43 00	
The Fred Macey Co., cards	5 32	
S. Ward Co., repairing stamp	1 50	
		<u>\$1,568 26</u>

Electrical Department.**CREDIT.**

Appropriations, from Taxes, 1903	\$7,000 00
Transferred to Excess and Deficiency, balance unused	108 34
	<u>\$6,891 66</u>

Receipts:—

Cash, received of Frederick A. Higgins, labor	\$14 00	
John J. Coon & Co., cutting wires	6 00	
Charles E. Berry, cutting wires	5 00	
		<u>25 00</u>
Stock and labor billed other departments:—		
Electrical Department, Steam Fire Alarm Whistle	26 50	
		<u>\$6,943 16</u>

DEBIT.

(Expenditures.)

Cash, paid Edward Backus, salary as super- intendent of electric lines and lights	\$1,300 00
disbursements	11 00
Laborers	3,600 00
Chandler & Farquhar, electrical supplies	24 48
S. H. Couch Co., electrical supplies	67 76
W. E. Decrow, electrical supplies	245 05
Electrical Gas Lighting Co., electrical supplies	405 28
Thomas W. Gleeson, electrical supplies	77 00
The Cornelius Callahan Co., electrical supplies	4 00
Municipal Signal Co., electrical supplies	38 91
C. H. Crosby & Co., electrical supplies	74 97
Clifton Mfg. Co., electrical supplies	5 60
Chase-Shawmut Co., electrical supplies	14 40
Pettingell-Andrews Co., electrical sup- plies	86 45
American Steel & Wire Co., wire	297 00
D. J. Bennett, harness work	21 85
J. A. Kiley, wagon repairing	37 50
Charles R. Simpson, dentistry	2 00
Elms Farm Boarding Stable, board of horses	42 11
Fire Department, board of horses	300 00
I. H. Brown Moulding Co., lumber	54
E. D. Sawyer Lumber Co., lumber	1 54
F. C. Ayer, lumber	18 20
Fellows & Co., ladders	2 00
C. F. Mills, carpentering	34 13
William Hall & Co., castings	1 35

Amount carried forward	\$6,713 12
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Amount brought forward	\$6,713 12	
F. W. Kimball, cases	16 97	
Robt. Josselin, gloves	4 12	
Charles E. Berry, stock and repairing	9 45	
John T. Sellon, fire box glasses	9 00	
Pureoxia Distilled Water Co., water	1 00	
F. W. Farrar, register	6 00	
William E. Plumer & Co., hardware	10 31	
Underhill Hardware Co., hardware	34 32	
I. H. Wiley & Co., hardware	31 00	
Boston Bolt Co., hardware	6 46	
E. S. Sparrow & Co., hardware	5 21	
Jackson Caldwell & Co., spread	1 35	
Somerville Journal Co., printing	58 50	
Somerville Post-office, postage	5 00	
Charles E. Perry & Co., paper	25 00	
George T. Day, expressing	75	
Glines & Co., expressing	1 30	
American Express Co., expressing	4 15	
A. G. Renner, expressing	15	
		<u>\$6,943 16</u>

Electrical Department, Steam Fire Alarm Whistle.

CREDIT.		
Balance from 1902		\$500 00
DEBIT.		
(Expenditures.)		
Cash, paid W. E. Decrow, whistle		
blowing apparatus complete . \$483 50		
10 00		
	<u>\$473 50</u>	
Electrical Department, moving whistle .	26 50	
		<u>\$500 00</u>

Excess and Deficiency.

CREDIT.		
Appropriations, from Taxes, 1903		\$2,101 77
DEBIT.		
Balance from 1902		<u>\$2,101 77</u>
CREDIT.		
Assessors, balance of 1903 account		\$2 17
City Auditor, balance of 1903 account		18 40
City Clerk, balance of 1903 account		337 64
City Engineer, balance of 1903 account		157 90
City Messenger, balance of 1903 account		52 60
City Solicitor, balance of 1903 account		47 10
Clerk of Committees and Departments, balance of 1903		
account		82 22
Contingent Fund, balance of 1903 account		129 53
Election Expenses:—		
Commissioner of Public Buildings, balance of 1903		
account		21 05
Registrars of Voters, balance of 1903 account		31 74
Electrical Department, balance of 1903 account		108 34
Executive Department, balance of 1903 account		101 27
Amount carried forward		<u>\$1,090 01</u>

Amount brought forward	\$1,090 01
Fire Department, balance of 1903 account	152 83
Inspection of Buildings, balance of 1903 account	101 62
Printing and Stationery, balance of 1903 account	674 00
Public Buildings Maintenance:—	
Armory, balance of 1903 account	48 17
Fire Department, balance of 1903 account	49 27
Highways, balance of 1903 account	148 16
Police, balance of 1903 account	358 54
Public Grounds, balance of 1903 account	40 45
Sewer Department, balance of 1903 account	59 90
Public Grounds, balance of 1903 account	36
Public Library, balance of 1903 account	2 67
Reduction of Funded Debt, balance of 1903 account	3,748 56
Sealer of Weights and Measures, balance of 1903 account	166 74
Sewer Maintenance, balance of 1903 account	9 72
	<hr/>
	\$6,651 00
Balance to debit of account, 1904	8,401 43
	<hr/>
	\$15,052 43

DEBIT.

City Treasurer, balance of 1903 account	\$228 90
Election Expenses:—	
City Clerk, balance of 1903 account	18 37
Pay of Election Officers, balance of 1903 account	8 00
Highways, Removing Brown-tail Moths, balance of 1903 account	595 71
Military Aid, balance of 1903 account	287 96
Police, balance of 1903 account	2,690 52
Public Buildings Maintenance:—	
City Hall, balance of 1903 account	826 49
City Hall Annex, balance of 1903 account	18 40
Health Department, balance of 1903 account	207 21
Public Library, balance of 1903 account	857 13
Schoolhouses, balance of 1903 account	2,349 48
Support of Poor, balance of 1903 account	292 74
Water Department, balance of 1903 account	114 95
School Contingent, balance of 1903 account	1,556 29
School Teachers' Salaries, balance of 1903 account	163 61
Soldiers' Relief, balance of 1903 account	3,276 81
Street Lights, balance of 1903 account	39 51
Support of Poor, City Home, balance of 1903 account	29 24
Support of Poor, Miscellaneous, balance of 1903 account	1,491 11
	<hr/>
	\$15,052 43

Executive Department.

CREDIT.

Appropriations, from Taxes, 1903	\$3,900 00
Transferred to Excess and Deficiency account, balance unused	101 27
	<hr/>
	\$3,798 73

DEBIT.

(Expenditures.)

Cash, paid Hon. Edward Glines, salary as mayor	\$2,500 00	
Fred E. Warren, secretary to the mayor	1,200 00	
A. C. Libby & Sons, stationery	8 55	
S. Ward Co., stationery	4 90	
Somerville Post-office, postage	5 00	
Wagner Typewriter Co., ribbon	1 00	
Somerville Journal Co., printing and stationery	5 00	
W. A. Greenough & Co., directory	3 50	
D. W. Skinner, rubber and stamp	60	
New England Telephone & Telegraph Co., service	70 18	
		<u>\$3,798 73</u>

Fire Department.

CREDIT.

Appropriations, from Taxes, 1903	\$35,000 00
Transferred from Water Works Income account	31,000 00
	<u>\$66,000 00</u>
Transferred to Excess and Deficiency account, balance unused	152 83
	<u>\$65,847 17</u>
Receipts:—	
Cash, received of William L. Lockhart & Co., old hose	13 50
Stock and labor billed other departments:—	
Electrical Department, board of horse	300 00
	<u>\$66,160 67</u>

DEBIT.

(Expenditures.)

Cash, paid James R. Hopkins, salary as chief engineer	\$2,000 00
Nathaniel C. Barker, assistant engineer	1,200 00
Permanent firemen and substitutes	\$35,506 66
	<u>2 00</u>
	35,504 66
Steamer Co. No. 1, callmen	1,572 00
Steamer Co. No. 2, callmen	1,511 38
Steamer Co. No. 4, callmen	1,420 70
Hose Co. No. 2, callmen	1,397 50
Hose Co. No. 3, callmen	1,292 86
Hose Co. No. 5, callmen	1,399 00
Hose Co. No. 6, callmen	870 00
Hose Co. No. 7, callmen	696 00
Hook & Ladder Co. No. 1, callmen	2,004 90
Hook & Ladder Co. No. 2, callmen	1,983 81
Fulton O'Brien, hay and grain	572 91
Nathan Tufts & Sons, hay and grain	2,250 88
F. C. Dinsmore, hay and grain	120 84
Lord & Webster, hay and grain	306 76
Hobart S. Palmer, hay and grain	285 27
Proctor Bros., hay and grain	1,061 96
	<u>\$57,451 43</u>
Amount carried forward	

Amount brought forward	\$57,451 43
M. E. Crouse, horseshoeing	27 45
William Buckley, horseshoeing	60 47
George & Ireland, horseshoeing	6 82
Edward O'Brien, horseshoeing	86 00
W. H. Richardson, horseshoeing	176 05
J. B. Rufer, horseshoeing	349 82
J. B. Rufer, iron work	22 35
J. H. Thompson, horseshoeing	34 93
I. B. Walker, horseshoeing	141 15
George & Hamilton, horseshoeing	24 95
J. W. Edwards, horseshoeing	3 52
J. H. Edwards, horseshoeing	68 45
Timothy Collins, horseshoeing	5 00
Welch & Hall, horses	684 27
Henry S. Harris & Son, horses, harness, etc.	817 80
Henry S. Harris & Son, harness work	87 45
R. M. Sturtevant, horse	225 00
Charles T. Garland, services and use of horses	10 00
Campbell Iron Works, grate	1 50
American Fire Engine Co., grates	139 87
C. L. Underhill, iron work	2 75
Charles R. Simpson, veterinary services	95 50
Combination Harness Co., harness work	1 65
D. J. Bennett, harness work	99 55
Spalding Harness Co., harness work	16 70
D. McDonald, harness work	17 55
H. O. Austin, harness work	11 90
Morgan & Bond, harness work	15 50
F. D. & J. W. Bartlett, harness work	4 50
Hill & Hill, harness work	8 00
Charles E. Berry, repairing wagons	283 93
L. A. Wright, repairing wagons	38 35
J. A. Kiley, repairing wagons	143 75
Welch, Dwyer & Grady, repairing wagons	330 00
Hale & Mayhew Co., repairing wagons	13 45
Joseph Palmer, repairing wagons	15 00
I. B. Walker, repairing wagons	18 73
William T. Henderson, repairing wagons	170 50
Archibald Wheel Co., repairing wagons	70 00
Firestone Tire & Rubber Co., repairing wagons	53 85
E. Teele & Co., repairing wagons	109 65
Edward Kendall & Sons, repairing apparatus	379 83
C. N. Perkins & Co., repairing apparatus	99 00
Crosby Steam Gage & Valve Co., repairing apparatus	11 80
J. B. Rufer, repairing apparatus	1 55
Concord Axle Co., hubs	40 00
C. W. H. Moulton & Co., apparatus	79 50
McGrath & Woodley, bill heads	6 50
W. A. Greenough & Co., directory	3 50
F. W. Barry, Beale & Co., stationery	\$12 75
	75
	12 00
Amount carried forward	\$62,578 77

Amount brought forward	\$62,578 77
Smith Premier Typewriter Co., supplies	3 50
"Fire & Water" Eng. Co., subscription	3 00
Somerville Post-office, stamps	5 00
Harry L. Marston, record books	5 00
F. S. Blanchard & Co., Mass. year book	3 00
Mrs. M. E. Calvert, washing	164 86
Mrs. I. C. Jackson, washing	115 96
Mrs. W. Loveland, washing	53 00
A. M. Spike, washing	30 00
Mrs. Samuel H. Stevens, washing	45 25
Mrs. E. F. Trefren, washing	44 51
Capt. Taber, disbursements	2 50
E. W. Ring, services	36 00
J. A. Durell, hardware	1 60
E. S. Sparrow & Co., hardware	10 38
Underhill Hardware Co., hardware	26 43
W. L. Snow Co., hardware	25
Whitney & Snow, hardware	24 45
Leander Barber, brooms and brushes	18 75
William G. Hallock, brooms and brushes	47 20
Murphy, Leavens & Co., brooms and brushes	36 93
Continental Brush Co., brooms and brushes	22 50
Boston Woven Hose & Rubber Co., hose	68 25
Gutta Percha & Rubber Mfg. Co., hose	240 00
Boston Belting Co., hose	75 00
Eureka Fire Hose Co., hose	155 00
Combination Ladder & Rhode Island Coupling Co., hose	70 00
Globe Rubber Works, hose	60 00
Anderson Coupling and Supply Co., couplings	64 50
Boston Coupling Co., reducers	197 30
Cambridge Ice Co., ice	50 55
Boston Ice Co., ice	6 00
Fresh Pond Ice Co., ice	37 39
Winter Hill Ice Co., ice	6 00
Wellington-Wild Coal Co., coal	252 00
M. G. Staples, teaming	6 00
American Express Co., expressing	10 45
George T. Day, expressing	3 34
E. R. Perham, expressing	2 20
Glines & Co., expressing	12 60
Gilman Express Co., expressing	5 59
A. G. Renner, expressing	2 90
W. H. Bullard, supplies	15 97
The Clinton Oil Co., supplies	35 87
R. Dreyer, oil	40 57
Eastern Oil and Gasolene Supply Co., oil	76 66
J. A. Wright & Co., polish	9 60
J. Wesley Edmonds, polish	26 10
Hinds & Coon, polish	6 00
James Bartley, salt	20
Eastern Salt Co., salt	5 25
L. G. Stone & Co., meal	7 00
Eastern Drug Co., drugs	68 68
C. S. Lombard & Co., drugs	6 75
Amount carried forward	<hr/> \$64,902 56

Amount brought forward	\$64,902 56
The Cornelius Callahan Co., electrical supplies	141 00
Electric Gas Lighting Co., electrical supplies	1 00
Henry K. Barnes, electrical supplies	225 50
H. G. White, electrical supplies	50
Mathieson Alkali Works, soda	35 28
J. E. Phipps, grease	4 20
F. E. Fitts Mfg. Co., waste	10 24
L. G. Green, soap	1 20
George W. Norton, soap	13 05
Sartwell, Heinold & Humphrey, soap	4 80
James Haines & Co., disinfectant	7 50
Winchester Tar Disinfectant Co., disinfectant	10 00
Grover & Berry, medicine	7 15
George E. Grover, medicine	50
Frank P. Merrill Co., nutritine	28 00
Ame & Co., standard food	6 00
John G. Lesure, horse medicine	46 00
Nature's Remedy Co., horse medicine	4 65
Elias Lathrop, hoof ointment	8 00
The Mitchell Mfg. Co., insignia	64 95
Boston Regalia Co., insignia	19 91
E. P. Gleason Mfg. Co., repairing hats, etc.	25 40
Scovill Mfg. Co., buttons	30 37
Joseph Moran, refreshments	8 60
S. H. Thompson, lunch at fire	25 85
Howard Lowell & Son, carriage hire	8 00
Eugene Mead, carriage hire	5 00
J. H. Thompson, carriage hire	8 00
William T. Henderson, carriage hire	15 25
Benjamin F. Freeman, photographs	16 00
New England Telephone & Telegraph Co., service	\$252 52
	39 75
	<hr/> 212 77
S. C. Baxter, State Inspector of Boilers, inspection	2 00
Oliver Whyte Co., basket and partitions	39 00
New Departure Bell Co., bells	60 00
American Smoke Mask Co., mask	4 50
M. E. Youngjohn, oil cloth	88
John L. Crafts, covers and wrenches	48 60
H. Wood, sharpening saws	40
John W. McLean & Co., sharpening clippers	1 50
George W. Ladd, horseshoeing	18 18
Joseph Breck & Sons, truck	7 15
W. A. Haskell, supplies	21 75
S. D. Hicks & Son, repairing acid holders	50 30
George F. Hughes, painting	2 73
Charles F. Mills, carpentering	3 20
Arthur P. Thain, repairing mattress	3 25

\$66,160 67

Fire Department, New Steam Fire Engine.

CREDIT.

Transferred from Public Buildings Construction, Engine House in Ward Two account	\$5,375 00
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DEBIT.

(Expenditures.)

Cash, paid American Fire Engine Co., fire engine	<u>\$5,375 00</u>
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Funded Debt.

CREDIT.

Funded Debt as stated January 1, 1902	\$1,477,000 00
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Issue of 1903:—

City Loan Bonds Nos. 3117 to 3189	\$172,500 00
Sewer Loan Bonds Nos. 279 to 303	25,000 00
	<u>197,500 00</u>

\$1,674,500 00

DEBIT.

Bonds matured in 1903:—

City Loan Bonds Nos. 1656 to 1664	\$9,000 00
City Loan Bonds Nos. 1864 to 1881	18,000 00
City Loan Bonds Nos. 2116 to 2123	8,000 00
City Loan Bonds Nos. 2276 to 2284	9,000 00
City Loan Bonds Nos. 2407 to 2416	10,000 00
City Loan Bonds Nos. 2540 to 2547	8,000 00
City Loan Bonds Nos. 2650 to 2661	12,000 00
City Loan Bonds Nos. 2786 to 2793	8,000 00
City Loan Bonds Nos. 2894 to 2903	10,000 00
City Loan Bonds Nos. 1215 to 1217	3,000 00
City Loan Bonds Nos. 1547 to 1581	35,000 00
Sewer Loan Bond No. 62	1,000 00
Sewer Loan Bond No. 179	1,000 00
Sewer Loan Bond No. 203	1,000 00
Sewer Loan Bond No. 225	1,000 00
Sewer Loan Bond No. 254	1,000 00
Sewer Loan Bond No. 45	1,000 00
Sewer Loan Bonds Nos. 102 to 105	4,000 00
Paving Loan Bonds Nos. 51 to 55	5,000 00
Water Loan Bonds Nos. 239 to 256	18,000 00
Water Loan Bond No. b454	1,000 00
Water Loan Bonds Nos. 349 to 350	2,000 00
Water Loan Bonds Nos. 448 to 449	2,000 00
Metropolitan Park Assessment Loan Bond No. 1	1,000 00

\$169,000 00Present Funded Debt, balance of account 1,505,500 00\$1,674,500 00**Health Department.**

CREDIT.

Appropriations, from Taxes, 1903	\$39,000 00
Transferred from Reduction of Funded Debt account	4,827 80

Amount carried forward \$43,827 80

Amount brought forward		\$43,827 80
Receipts:—		
Cash, received of Commonwealth of Massachusetts, expense of contagious diseases	113 42 2 40	
		\$115 82
Middlesex Paper Co., paper		1,413 00
J. E. Richardson, milk inspector's fees		132 04
William P. Mitchell, clerk, permits to keep swine, etc.		68 00
Hannibal S. Pond, offal		1,100 00
City of Cambridge, medical attendance at Contagious Disease Hospital		465 00
		3,293 86
Stock and labor billed other departments:—		
Public Buildings Construction, School-houses		\$39 00 23 25
(G. A. McGonnigle, services of 1902.)		15 75
		\$47,137 41

DEBIT.

(Expenditures.)

Cash, paid Caleb A. Page, salary as inspector	\$1,200 00
disbursements	90
Sundry persons, burying dead animals	122 00
Edgar T. Mayhew, salary as superintendent	1,100 00
Julius E. Richardson, salary as milk inspector	800 00
disbursements	40
Charles M. Berry, salary as inspector of animals and provisions	800 00
fumigating, etc.	14 50
Frank L. Morse, M. D., salary as bacteriologist	622 58
disbursements	1 00
Laborers	27,063 00
E. F. Benson, repairing regenerator	24 00
C. E. Bedell, M. D., vaccinating	604 50
J. H. Dennen, M. D., vaccinating	905 00
George F. Hughes, M. D., vaccinating	544 68
L. H. Pote, M. D., vaccinating	697 00
Francis Shaw, M. D., vaccinating	742 00
Herbert K. Stiles, M. D., vaccinating	623 00
F. E. Barton, clerical services	65 25
Bessie L. L. Crosby, clerical services	25 33
Eastern Drug Co., drugs	5 36
Frederick W. Gay, drugs	2 75
Melvin & Badger, drugs and supplies	140 75
C. S. Lombard & Co., drugs	2 20
C. W. Lerner & Co., disinfectant	8 60
Sulpho-Naphthol Co., disinfectant	24 00
New England Vaccine Co., vaccine points	10 20
Frederick Stearns & Co., vaccine points	210 00
R. G. Perkins, medicine	34 74
Amount carried forward	\$36,393 74

Amount brought forward	\$36,393 74
H. E. Bowman, medicine	19 31
Shepard, Clark & Co., sponges . . .	12 25
L. E. Knott Apparatus Co., laboratory fittings	24 80
Eimer & Amend, laboratory fittings .	3 60
Mary E. Ayer, nursing	280 00
William F. Waller, services as watchman	202 50
Patrick H. Ryan, police services . .	164 25
Leo Spellman, police services . . .	123 75
Proctor Bros., hay and grain	4,488 94
D. J. Bennett, harness work	347 85
George A. Noyes & Co., harness work .	2 92
H. O. Austin, harness work	9 04
Dennis Doyle, horseshoeing	59
William Buckley, horseshoeing	49 00
M. E. Crouse, horseshoeing	23 50
George McDormand, horseshoeing . .	107 50
Edward O'Brien, horseshoeing . . .	203 51
I. B. Walker, horseshoeing	233 22
J. H. Edwards, horseshoeing	53 50
I. L. Roberts, horseshoeing	19 75
Hale & Mayhew Co., wagon repairs .	1,072 62
C. L. Underhill, wagon repairs . . .	24 80
F. Ivers & Son, buggy	155 00
Howard Lowell & Son, buggy	125 00
Caldwell's stable, board of horse, etc.	170 07
A. P. Rockwood, board of horse . . .	204 00
Welch & Hall Co., horses	1,173 15
Frank W. Leavitt, ash carts	200 00
Charles R. Simpson, veterinary services	99 00
J. A. Durell, hardware	112 64
Whitney & Snow, hardware	40 75
C. L. Underhill, hardware	9 85
Union Square Furniture Co., furniture .	26 96
A. C. Libby & Sons, stationery . . .	4 60
Thomas Groom & Co., stationery . . .	7 50
Thorpe & Martin Co., stationery . . .	25
William L. Julian, advertising . . .	10 12
Somerville Journal Co., printing and ad- vertising	139 63
Webcowit Press, printing	7 25
Wesley A. Maynard, advertising . . .	2 80
Somerville Post-office, postage . . .	11 00
Rent of box	3 00
Biller Brothers, groceries	9 40
Edward Coliten, groceries	16 02
Russell & Co., groceries	115 65
West Somerville Branch, groceries . .	8 07
P. T. O'Brien, groceries	2 92
R. M. Sturtevant & Co., groceries . .	7 22
John F. O'Brien, oil	60
C. W. Cahalan, labor on boiler . . .	3 68
City of Cambridge, care of patients .	126 00
City of Boston, care of patients . . .	97 52
City of Newton, care of patients . . .	16 30
J. H. Brooks, towelling	40
T. E. Littlefield, lumber	2 31
A. C. Gordon, signs and stakes . . .	7 50
William J. McCarthy, use of teams . .	87 25

Amount carried forward \$46,864 35

Amount brought forward	\$46,864 35	
T. Allen, use of teams	36 00	
John Fisher & Co., pails	16 20	
William S. Howe, kettle	1 25	
New England Telephone & Telegraph Co., service	137 21	
Wellington-Wild Coal Co., coal	63 05	
J. A. Marsh, coal and wood	2 55	
Cambridge Ice Co., ice	9 15	
American Express Co., expressing	7 00	
I. M. Grundy, expressing	25	
E. R. Perham, expressing	15	
Thorpe's Express, expressing	25	
Janitors' services	28 35	
	28 35	
	<hr/>	0 00
		<hr/>
		<u>\$47,137 41</u>

Highway Betterment Assessments.

CREDIT.

Cash, received of sundry persons	\$10,444 18
Less amount returned after original assessment of Ham- mond street had been paid	68 96
	<hr/>
	\$10,375 22
Balance to debit of account, 1904	5,019 57
	<hr/>
	\$15,394 79

DEBIT.

Balance from 1902	\$5,078 73
Highways, Construction, assessments levied as follows:—	
Rogers avenue	\$1,330 37
Museum street	134 12
Fairlee street	100 45
Kensington avenue	516 19
Winter street	154 28
Homer square	252 87
Sycamore street	447 08
Sydney street	534 96
Spencer avenue	613 53
Gordonia road	521 87
Fountain avenue	216 89
Elmwood street	514 27
Thorndike street	59 10
Fremont street	757 71
Bedford street	102 70
Henry avenue	255 31
Maple street	444 92
Marion street	58 63
Pembroke street	236 13
Poplar street	346 44
Professors row	768 34
Veazie street	253 68
Willoughby street	276 60
Dane avenue	379 14
Durham street	289 58
Fenwick street	254 75
	<hr/>
Amounts carried forward	\$9,819 91
	<hr/>
	\$5,078 73

Amounts brought forward	\$9,819 91	\$5,078 73
Knowlton street	329 98	
Wilton street	248 44	
Windham road	248 13	
	<u>\$10,646 46</u>	
Less abatements	330 40	
		<u>10,316 06</u>
		<u>\$15,394 79</u>

Highways, Boston Avenue Bridge.

CREDIT.

Transferred from Reduction of Funded Debt account	\$652 44
Receipts:—	
Cash, received of City of Medford, inspection and incidental expenses	54 42
	<u>\$706 86</u>

DEBIT.

Balance from 1902	<u>\$706 86</u>
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Highways, Construction.

CREDIT.

Appropriations, from Funded Debt, 1903	\$15,000 00
Reduced by the following transfers:—	
Highways, Maintenance account . \$3,807 25	
Sidewalks, Construction account . 1,185 50	
Sidewalks, Maintenance account . 1,185 35	
	<u>\$6,178 10</u>

Increased by the following transfers:—

Highways:—

Construction Munroe street and Stone avenue	\$5 00
Paved Gutters and Crossings	94 36
Middlesex-avenue Bridge	109 63
Watering Streets	1,272 08

1,481 07

\$4,697 03

234 48

Balance of account unused, carried to 1904	<u>4,931 51</u>
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\$10,068 49

Charged to Highway Betterment Assessments, assessments levied	\$10,646 46
Less abatements	330 40
	<u>10,316 06</u>

\$20,384 55

DEBIT.

(Expenditures.)

Cash, paid laborers	\$9,598 13
Middlesex Registry of Deeds, recording documents	22 75
Wesley A. Maynard, advertising	5 00
Somerville Journal Co., advertising	98 25
Benjamin F. Freeman, photographs	21 00
	<u>\$9,745 13</u>
Amount carried forward	

Amount brought forward	\$9,745 13
Frank Hervey, exploders, etc. . . .	62 76
Addie Russell, damage to estate Broadway	500 00
C. J. Miers, use of double teams	36 00
George W. Prichard, teaming	21 50
J. H. Fannon, teaming stone	35 52
W. J. McCarthy, teaming stone	22 89
Waltham Trap Rock Co., stone	555 20
J. H. Cressy, stone	23 60

\$11,002 60

Highways, Maintenance, use city teams and materials	8,800 83
Highways, Paved Gutters and Crossings, paving blocks	574 87
City of Somerville, assessment	6 25

\$20,384 55

Highways, Construction Munroe Street and Stone Avenue Extension.

CREDIT.

Receipts:—

Cash, received of William H. Flaherty and Regan, old stable	\$5 00
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DEBIT.

Transferred to Highways, Construction account	\$5 00
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Highways, Maintenance.

CREDIT.

Appropriations, from Taxes, 1903	\$2,100 00
Transferred from Highways, Construction account	3,807 25

\$5,907 25

Commonwealth of Massachusetts:—

Street railway tax	\$47,392 51
Boston Elevated Railway tax	7,744 52

55,137 03

\$61,044 28

Receipts:—

Cash, received of Charles A. Kelley, crushed stone	\$243 98
Sturtevant & Haley, crushed stone	2 80
Johnson, Hayward & Piper, crushed stone	31 05
Simpson Brothers Corporation, crushed stone	40 26
D. A. Young & Co., crushed stone	7 00
William J. McCarthy, stone	1,004 90
George M. D. Legg, crushed stone	79
A. B. Parker, bricks	16 58
Albert Aiken, bricks	3 79
Oliver A. Starr, bricks	5 52
Frederick S. Freeman, bricks	5 34
James Wood, bricks	3 60
Alice C. Cole, bricks	4 15
J. E. Watts, bricks	4 71

Amount carried forward \$1,374 47

Amount brought forward	\$1,374 47
T. F. Reardon, horses	145 00
Houlton's Express, care of horse	2 00
Ellen K. Larsen, discontinuing driveway	5 00
Patrick F. Quinn, driveway	5 00
Est. John P. Squire & Co., driveway	17 20
John McCarthy, driveway	30 90
Peter Murray, driveway	16 05
Frank A. Titus, driveway	14 13
J. Frank Mixer, driveway	11 57
Wellington-Wild Coal Co., repairing driveway	2 25
New England Oil Co., repairing street	182 26
Patrick McGovern, suit for damages	1,000 00
Boston & Maine Railroad, labor	33 60
Fitchburg Railroad (Boston & Maine Lessee), labor	28 50
Ellis & Buswell, labor	851 84
Hattie Brims, labor	3 49
Fred C. Dinsmore, laying brick	2 00
Boston Elevated Railway Co., city teams, etc.	276 24
George I. Vincent, gravel	75
A. H. Bickford, repairing sidewalk	2 25
F. A. Higgins, trimming trees	5 65
William P. Mitchell, sign	1 00

4,011 15

Stock and labor billed other departments:—

Public Buildings Maintenance, Fire Department	\$21 25
Sidewalks, Maintenance	837 73
Sidewalks, Construction	1,716 45
Highways, Construction	8,800 83
Highways, Watering Streets	234 35
Highways, Paved Gutters and Crossings	1,316 85
Highways, Removing Brown-tails	198 80

13,126 26

\$78,181 69

DEBIT.

(Expenditures.)

Cash, paid laborers	\$46,288 56
John P. Prichard, salary as superintendent of streets	2,000 00
disbursements	2 76
Eugene Mead, board of superintendent's horse	261 03
Charles I. Bucknam, services	340 00
Frank Buttimer, stone	793 92
J. F. Dwyer, stone	950 92
H. G. Kennedy, stone	165 42
William H. Lenox, stone	763 19
R. H. Sturtevant, stone	45 09
Waltham Trap Rock Co., stone	1,227 36
H. J. Green, stone	8 88
J. H. Cressy, stone	145 08
S. & R. J. Lombard, stone	69 48
W. J. McCarthy, stone	4 05
A. H. Kennedy, stone	50 70

Amount carried forward \$53,116 44

Amount brought forward	\$53,116 44
C. L. Batchelder, stone	20 61
Jeremiah Buttimer, stone	419 91
Herbert Nicoll, stone	143 55
Collins & Ham, stone	282 12
J. F. Draper, stone	49 41
P. J. Lennon, stone	71 73
P. J. Leonard, stone	25 08
David Evans, stone	74 79
F. Schumacher, stone	63 15
Boston & Lockport Block Co., paving blocks	29 43
William H. Casey, bricks	80 80
New England Brick Co., bricks	2 06
John F. Elkins, teaming stone	60 40
C. J. Myers, teaming stone	193 08
William J. McCarthy, teaming stone	41 35
George W. Prichard, teaming stone	103 91
J. H. Fannon, teaming stone	118 06
George F. McKenna, teaming stone	4 15
T. Allen, teaming stone	54 16
Ashton Valve Co., gage glasses	1 98
F. C. Ayer, lumber	260 98
A. M. Wood Co., lumber, etc. . . .	416 33
Geo. W. Gale Lumber Co., turning posts	10 00
W. A. Waugh, stakes	16 70
A. C. Aldrich, M. D., sleigh	25 00
Gilmore, Smith & Co., hay and grain	1,456 71
Lord & Webster, hay and grain	1,823 58
Nathan Tufts & Sons, hay and grain	3,545 45
Wm. H. Hitchings, veterinary services	197 00
D. McDonald, harness work	45 33
Morgan & Bond, harness work	770 40
Boston Bolt Co., bolts	11 90
Dodge, Haley & Co., supplies	493 61
Perrin, Seamans & Co., tools	39 39
I. W. Isele & Son, paving rammers	15 00
Cooper Bros., horses	450 00
R. M. Sturtevant & Co., horses	400 00
Edson Mfg. Co., refilling brooms	88 00
Taylor Iron & Steel Co., jaw plates	233 00
Electric Gas Lighting Co., supplies	1 89
Union Glass Co., globes	47 12
Farrell Foundry and Machine Co., re- pairing road machines	51 18
Buffalo-Pitts Steam Roller Works, re- pairing road machines	79 50
Walter M. Field, repairing road machines	49 55
W. S. Howe, repairing road machines	20 11
H. J. Shaw, repairing road machines	6 54
Osgood & Witherly, repairing road ma- chines	8 05
Barbour Stockwell Co., repairing road machines	33 92
Hale & Mayhew Co., repairing wagons	258 59
Ames Plow Co., repairing wagons	30 20
I. H. Brown Moulding Co., repairing wagons	5 19
I. B. Walker, repairing wagons	1 35
Amount carried forward	\$65,847 74

Amount brought forward	\$65,847 74
L. A. Wright, repairing wagons	32 75
E. Teele & Co., repairing wagons	17 00
Joseph Palmer, repairing wagons	1 50
Fellows & Co., wagons, etc.	12 62
Harold L. Bond & Co., wheelbarrows, etc.	29 25
Oliver Whyte & Co., netting	7 58
Boston Broom Co., brooms	30 00
Gates Iron Works, buckets	120 00
Roberts Iron Works, grates	25 34
Haywood Hartwell, carpentering	8 00
H. P. Tibbetts, carpentering	32 64
J. C. H. Snow, carpentering	189 25
A. C. Libby & Sons, books and station- ery	43 56
Somerville Journal Co., printing and stationery	60 25
Somerville Post-office, postage	10 00
A. J. Whittemore, photographs	11 00
B. F. Freeman, photographs	7 50
Geo. O. W. Servis, photographs	1 50
Geo. McDormand, horseshoeing	19 75
Edward O'Brien, horseshoeing	189 13
I. B. Walker, horseshoeing	5 01
Wm. Buckley, horseshoeing	38
George & Hamilton, horseshoeing	1 70
Murphy Varnish Co., paint, etc.	511 50
I. H. Wiley & Co., gold leaf	7 65
J. F. Berton, painting steps	10 00
W. E. Plumer & Co., hardware	58 07
Whitney & Snow, hardware	275 13
E. S. Sparrow & Co., hardware	146 30
Underhill Hardware Co., hardware	12 84
M. C. Warren & Co., hardware	1 47
Geo. F. Hurn & Co., hardware	4 00
J. W. Howard, flowers	23 38
George W. Holden, loam	4 00
Geo. M. Spalding, setting glass	1 00
Boston Belting Co., belting	5 74
H. Wood, repairing tools	21 55
John W. Harmon, repairing tools	5 00
Wm. B. Holmes, brass, labor, etc.	3 20
Suffolk Engraving & Electrotyping Co., half tones	24 66
The Phillips Co., 3 sets letters	2 10
Walker-Pratt Mfg. Co., repairing water heater	1 25
Julian D'Este Co., repairing ball cock	9 75
James F. Davlin, plumbing	51 85
Patrick Curtin, settlement of claim	90 00
John J. McCulpher, settlement of claim	2,100 00
Arthur C. Ingalls, settlement of claim	40 00
Frank W. Plummer, settlement of claim	100 00
Henry Rockwood, settlement of claim	750 00
David M. Smith, settlement of claim	112 50
Delia Smith	112 50
Arthur R. Perry, M. D., witness fees	47 00
G. L. Walton, M. D., witness fees	50 00

Amount carried forward \$71,285 89

Amount brought forward	\$71,285 89	
Hartford Steam Boiler In- spection & Insurance Co., insurance	150 00 5 55	
		144 45
Town of Wakefield, taxes		101 50
City of Medford, one-half cost of main- tenance of Middlesex-avenue bridge . .		50 77
Wm. W. Fish, appraising Russell estate, Broadway		10 00
John Stackpole, estimating damage to Russell estate		10 00
Geo. E. Lowell, carriage hire		5 00
Howard Lowell & Sons, carriage hire . .		24 00
New England Telephone & Telegraph Co., service		51 71
Wellington-Wild Coal Co., fuel	1,826 88	
T. O'Keefe, gravel	439 46	
W. B. Mullen, gravel	1,029 40	
H. J. Green, gravel	114 40	
J. H. Fannon, gravel	41 75	
A. R. Lewis, gravel	328 00	
Charles A. Kelley, sand	168 13	
American Express Co., expressing . .	2 00	
Jairus Mann, disbursements	3 00	
Asa B. Prichard, car fares	1 30	
Armstrong Bros., soil pipe	11 65	
Cling Surface Mfg. Co., polish	12 25	
John P. Squire & Co., salt	2 16	
Charles A. Claflin & Co., oil	131 27	
Braman, Dow & Co., cotton waste . . .	22 19	
Boston Belting Co., packing	8 30	
Priest, Page & Co., scale	155 00	
D. A. McKay & Co., salt, lard, etc. . .	2 29	
Chadwick-Boston Lead Co., metal . . .	4 97	
A. M. Wood Co., steel and iron	93 98	
Thomas Hollis Co., drugs	29 95	
Frank Hervey, forcite	39 34	
W. G. Nash, cement	8 80	
Highland Coal Co., lime	1 90	
Waldo Bros., lime and cement	41 50	
Benjamin Hadley, sand	8 40	
Jerry Buttiner, sand	86 00	
James H. Hoar, Jr., street cleaning and watering	108 33	
P. Lacey, mason work on Mrs. Ingall's house, Munroe street	86 80	
H. S. Angus & Son, raising house . . .	30 00	
		<hr/>
	\$76,522 72	
Highways, Paved Gutters and Crossings account, round stone	1,600 49	
Sidewalks, Construction account corners, Sidewalks, Maintenance account, bricks, Public Buildings Construction, Historical Building and Observatory on Prospect Hill account, stone	5 00 8 75 32 22	
Water Maintenance account, pipe . . .	12 51	
		<hr/>
		<u>\$78,181 69</u>

Highways, Middlesex Avenue Bridge.

CREDIT.

Balance from 1902	\$109 63
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DEBIT.

Transferred to Highways Construction account	\$109 63
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Highways, Paved Gutters and Crossings.

CREDIT.

Appropriations, from Funded Debt, 1903	\$20,600 00
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Transferred to Highways, Construction account, balance unused	94 36
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\$20,505 64

Stock and labor billed other departments:—

Highways, Maintenance account	\$1,600 49
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1,316 85

\$283 64

Highways, Construction account	574 87
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Sidewalks, Construction account	72 20
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Sidewalks, Maintenance account	41 74
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972 45

\$21,478 09

DEBIT.

(Expenditures.)

Balance from 1902	\$9,382 27
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Cash, paid laborers	4,049 41
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C. W. Dolloff, paving stones	5,664 60
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G. L. Dolloff, paving stones	109 23
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John Turner & Co., paving blocks	118 95
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C. W. Dolloff & Co., paving blocks	100 00
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Ferris Brick Co., paving blocks	207 54
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S. & R. J. Lombard, paving blocks	1,269 04
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Charlestown Gas & Electric Co., coal tar	16 25
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Warren Bros. Co., tar and pitch	40 80
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W. G. Nash, cement	11 00
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T. Allen, concreting	356 72
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J. H. Fannon, concreting	99 78
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Boston & Maine Railroad, freight	52 50
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\$21,478 09

Highways, Paving Washington Street.

CREDIT.

Balance from 1902	\$212 46
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DEBIT.

(Expenditures.)

Cash, paid Patrick McGovern, on account of contract	\$212 46
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Highways, Removing Brown-Tail Moths.

CREDIT.

Appropriations, from Taxes, 1903	\$3,000 00
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Transferred from Excess and Deficiency account, balance overdrawn	595 71
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Amount carried forward	\$3,595 71
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Amount brought forward		\$3,595 71
Receipts:—		
Cash, received of sundry persons, removing moths from trees	\$126 46	
Stock and labor billed other depart- ments:—		
Public Buildings, maintenance, School- houses account	27 63	
Public Grounds account	37 00	
	<hr/>	191 09
		<hr/>
		\$3,786 80

DEBIT.

(Expenditures.)

Cash, paid laborers	\$3,588 00	
Highways, Maintenance account, use of city teams and materials	198 80	
	<hr/>	\$3,786 80
		<hr/>

Highways, Thorndike Street Subway.

CREDIT.

Appropriations, from Funded Debt, 1903	\$3,800 00
Balance of account unused, carried to 1904	1,791 07
	<hr/>
	\$2,008 93

DEBIT.

(Expenditures.)

Cash, paid Boston & Maine Railroad, first payment on account of construction subway	\$2,000 00	
F. C. Ayer, lumber	8 93	
	<hr/>	\$2,008 93
		<hr/>

Highways, Watering Streets.

CREDIT.

Appropriations, from Taxes, 1903	\$1,000 00
Taxes, assessments levied	20,621 44
Receipts:—	
Cash, received of abutters	\$104 36
Sundry persons, insuring	62 00
	<hr/>
	166 36
	<hr/>
	\$21,787 80
Transferred to Highways, Construction account, balance unused	1,272 08
	<hr/>
	\$20,515 72

DEBIT.

(Expenditures.)

Cash, paid laborers	\$366 21
Charles I. Bucknam, overseeing	800 00
Jeremiah Buttiner, watering	466 13
Cornelius R. Bowlby, watering	629 00
William F. Bennett, watering	474 35
Edward F. Caldwell, watering	555 79
David J. Caldwell, watering	496 29
	<hr/>
Amount carried forward	\$3,787 77

Amount brought forward	\$3,787 77	
Jackson Caldwell, watering	515 59	
T. F. Crimmings, watering	466 13	
Ernest A. Dodge, watering	524 00	
John F. Elkins, watering	514 85	
James H. Fannon, watering	553 75	
Charles T. Garland, watering	625 50	
William A. Hall, watering	562 50	
William Libbey, watering	499 04	
Howard Lowell & Son, watering	587 00	
John A. Marsh, watering	615 00	
George F. McKenna, watering	622 00	
Henry J. McAvoy, watering	514 85	
Ellen McAvoy, watering	466 13	
Mark W. Patten, watering	531 29	
A. M. Prescott, watering	1,089 33	
George W. Prichard, watering	608 00	
Patrick Shannon, watering	118 77	
David M. Smith, watering	625 50	
R. M. Sturtevant, watering	654 90	
Suburban Coal Co., watering	968 30	
Ralph A. Sturtevant, watering	524 29	
Mary J. Shean, watering	524 00	
Alfred F. Shiner, watering	2 74	
James H. Thompson, watering	524 00	
Watson M. Thatcher, watering	172 33	
E. E. Whitehouse, watering	594 00	
Hale & Mayhew Co., repairing carts	207 07	
J. L. & H. K. Potter, repairing carts	1,750 66	
I. B. Walker, repairing carts	51 69	
Joseph Palmer, repairing carts	45 14	
Edward O'Brien, horseshoeing	16 50	
W. E. Plumer & Co., hardware	5 80	
William S. Howe, fillers	36 00	
Murphy Varnish Co., paint stock	184 50	
Charles S. Robertson, insurance	45 00	
Somerville Post-office, postage	4 00	
Aunita N. Fales, clerical services	96 00	
City of Medford, watering Boston avenue	47 45	
	<hr/>	
	\$20,281 37	
Highways, Maintenance account, paint stock and board of horse	234 35	
	<hr/>	
		\$20,515 72

Inspection of Buildings.

CREDIT.

Appropriations, from Taxes, 1903	\$4,100 00
Transferred to Excess and Deficiency account, balance unused	101 62
	<hr/>
	\$3,998 38
Receipts:—	
Cash, received of Walter T. Littlefield, plumbers' licenses	47 50
	<hr/>
	\$4,045 88

DEBIT.

(Expenditures.)

Cash, paid Frederick C. Fuller, salary as commissioner of public buildings	\$112 36	
Walter T. Littlefield, salary as commissioner of public buildings	1,870 43	
George H. Galpin, assistant to commissioner of public buildings	666 67	
Duncan C. Green, inspector of plumbing	1,200 00	
New England Telephone & Telegraph Co., service	70 40	
Howard Lowell & Son, board of horse	16 72	
W. A. Greenough & Co., directory	3 50	
A. C. Libby & Sons, stationery	34 70	
Somerville Journal Co., stationery	70 35	
Smith Premier Typewriter Co., supplies	75	
		<u>\$4,045 88</u>

Interest.

CREDIT.

Appropriations, from Taxes, 1903	\$52,000 00
Transferred from Red. Funded Debt, balance overdrawn	1,354 75
Water Works Income, amount transferred	7,120 00
	<u>\$60,474 75</u>
Coupons Unpaid account, charged by error in 1901	45 00
Receipts:—	
Cash, received of sundry persons	12,067 25
	<u>\$72,587 00</u>

DEBIT.

(Expenditures.)

Coupons maturing April 1, 1903,	\$2,170 00	
Coupons maturing July 1, 1903,	23,460 00	
Coupons maturing Oct. 1, 1903,	2,170 00	
Coupons maturing Jan. 1, 1904,	24,652 50	
		<u>\$52,452 50</u>
Cash, paid interest on temporary loans:—		
On note No. 527, \$50,000, seven months, one day, at 3¾ per cent.	\$1,098 97	
On note No. 528, \$25,000, six months, at 3½ per cent.	437 50	
On note No. 543, \$50,000, nine months, at 4.6 per cent. (discount)	1,725 00	
On note No. 529, \$100,000, six months, at 4¾ per cent.	2,375 00	
On note No. 539, \$15,000, six months, at 4¼ per cent. (discount)	318 75	
On notes Nos. 551-553, \$50,000, seven months, 4.74 per cent. (discount)	1,382 49	
		<u>\$7,337 71</u>
Amounts carried forward	\$7,337 71	\$52,452 50

Amounts brought forward .	\$7,337 71	\$52,452 50
On notes Nos. 546-549, \$100,00, six months, 4.6 per cent. (discount)	2,300 00	
On notes Nos. 556-557, \$25,000, six months, 4 $\frac{5}{8}$ per cent. (discount)	578 12	
On note No. 540, \$50,000, seven months, at 5 per cent.	1,458 33	
On note No. 555, \$100,000, three months, 4 $\frac{5}{8}$ per cent.	1,156 25	
On note No. 541, \$50,000, nine months, at 4 per cent.	1,500 00	
On note No. 542, \$50,000, nine months, at 4 per cent.	1,500 00	
On note No. 544, \$15,000, nine months, at 4 $\frac{1}{4}$ per cent.	478 13	
On note No. 550, \$25,000, six months, at 4 $\frac{1}{2}$ per cent	562 50	
On note No. 558, \$25,000, six months, at 4 $\frac{5}{8}$ per cent.	578 13	
On notes Nos. 565-567, \$100,000, six months, at 4.56 per cent. (discount) .	2,685 33	
		20,134 50
		<u>\$72,587 00</u>

Joseph F. Wilson Memorial.

	CREDIT.	
Balance from 1902		\$2,375 00
	DEBIT.	
	(Expenditures.)	
Cash, paid laborers	\$665 25	
Simpson Bros. Corporation, basin	750 00	
H. G. White, electric work	187 61	
George H. Maynard, plumbing	146 10	
T. F. Crimmings, sand	4 00	
M. A. Simpson, sand	2 50	
James F. Davlin, ells, etc.	3 68	
Somerville Iron Foundry, manhole and ring	13 10	
James Tevlin, teaming	87 00	
Waldo Bros., pipe	54 10	
Chadwick-Boston Lead Co., pipe	25 90	
B. F. Quimby, labor and teams	84 28	
Belding Bros., lumber and labor	16 45	
F. C. Ayer, lumber	21 93	
George F. Nilsson, rocks and services	39 50	
Gilman Express Co., lead	50	
New England Brick Co., brick	16 40	
T. F. McGann & Sons Co., plate	35 00	
A. C. Gordon, labor, glass, etc.	2 05	
F. E. Jones, disbursements	3 00	
Amount carried forward		<u>\$3,152 35</u>

Amount brought forward	\$3,152 35	
Hugh Nawn, breaking stone	27 00	
Whitney & Snow, hardware	1 63	
T. Allen, concreting	6 00	
E. R. Perham, expressing	35	
	<hr/>	
	\$2,187 33	
Public Buildings Construction, Historical Building and Observatory on Prospect Hill account, labor and teaming . .	39 70	
Public Grounds account, sod and loam .	20 00	
Sewers Construction account, sand and cement	50 00	
Water Maintenance account, stock and labor	77 97	
	<hr/>	
		\$2,375 00

Massachusetts, Commonwealth of.

CREDIT.

State Tax		\$43,750 00
National Bank Tax		1,387 01
Armory Loan Sinking Fund, 1903	\$1,690 03	
Interest on, 1903	2,175 00	
	<hr/>	3,865 03
Metropolitan Parks Loan Sinking Fund, 1903	\$4,981 02	
Interest on Parks, 1903	8,790 14	
Interest on Boulevards, 1903	1,272 98	
Cost of Maintaining Parks, 1903	4,842 00	
Cost of Maintaining Boulevards, 1903 . .	1,371 80	
Cost of Maintaining Nantasket, 1903 . .	551 29	
	<hr/>	21,809 23
Metropolitan Sewer Loan Sinking Fund, North Metropolitan System, 1903 . .	\$6,766 95	
Interest on, 1903	21,671 10	
Cost of Maintenance, 1903	18,150 28	
	<hr/>	46,588 33
Metropolitan Water Loan Sinking Fund, 1903	\$15,748 56	
Interest on, 1903	48,776 77	
Cost of Maintenance, 1903	12,763 10	
	<hr/>	77,288 43
		<hr/>
		\$194,688 03

DEBIT.

Balance from 1902	\$14,303 00	
(cash)	12 00	
	<hr/>	
	\$14,291 00	
Corporation Taxes, 1902 (cash)	1,679 37	
Corporation Taxes, 1903	25,545 87	
National Bank Tax, 1902 (cash)	25 33	
National Bank Tax, 1903	4,814 76	
Support of State Paupers, 1902 (cash) .	365 80	
Support of Paupers, 1903	664 89	
Temporary Support of State Paupers . .	186 12	
Expense of Contagious Diseases	2 40	
Armory Rents	725 00	
Street Railway Tax, 1903	47,392 51	
Water Receipts, 1903	1,279 93	
	<hr/>	
Amount carried forward	\$96,972 98	

Amount brought forward	\$96,972 98	
Boston Elevated Railway Tax, 1903	7,744 52	
Fees for collecting National Bank Tax	13 89	
Cash	\$92,027 14	
	2,070 50	
	<hr/>	89,956 64
		<hr/>
		\$194,688 03
State Aid, 1903		\$13,875 50
Soldiers' Burials, 1903		280 00
Military Aid, 1903		787 96
		<hr/>
		\$14,943 46
Balance to debit of account, 1904		<hr/>
		\$14,943 46

Metered Water Charges.

CREDIT.

Water Works, Abatements on Water Charges account, abatements	\$278 59
Receipts:—	
Cash, received of sundry water takers	14,019 15
	<hr/>
	\$14,297 74
Balance to debit of account, 1904	15,538 44
	<hr/>
	\$29,836 18

DEBIT.

Balance from 1902	\$14,189 92
Water Works Income, meter rates for last quarter of 1903, payable 1904	15,646 26
	<hr/>
	\$29,836 18

Military Aid.

CREDIT.

Appropriations, from Taxes, 1903	\$500 00
Transferred from Excess and Deficiency account, balance overdrawn	287 96
	<hr/>
	\$787 96
Receipts:—	
Commonwealth of Massachusetts	787 96
	<hr/>
	\$1,575 92

DEBIT.

(Expenditures.)

Cash, paid sundry persons as per pay-rolls	\$1,585 92
	10 00
	<hr/>
	\$1,575 92

Overlay and Abatement.

CREDIT.

Taxes, amount of overlay from assessors' warrant	\$13,468 06
Amount of assessors' supplementary warrants	564 88
Balance to debit of account, 1904	1,934 13
	<hr/>
	\$15,967 07

	DEBIT.	
Taxes, amount of abatements	\$15,852 79	
(cash)	30 00	
		\$15,822 79
Cash, paid sundry persons, taxes refunded		144 28
		<u>\$15,967 07</u>

Overplus on Tax Sales.

	CREDIT.	
Balance from 1902		\$118 13
	DEBIT.	
Balance to credit of account, 1904		<u>\$118 13</u>

Police.

	CREDIT.	
Appropriations, from Taxes, 1903		\$31,000 00
Transferred from Excess and Deficiency account, balance overdrawn		2,690 52
		<u>\$33,690 52</u>
Receipts:—		
Commonwealth of Massachusetts, corpora- tion tax, 1902		1,679 37
Commonwealth of Massachusetts, national bank tax, 1902		25 33
Commonwealth of Massachusetts, corpora- tion tax, 1903		25,545 87
Commonwealth of Massachusetts, national bank tax, 1903		4,814 76
Cash, received of John R. Fairbairn, Master of House of Correction, fines	\$510 00	
Herbert A. Chapin, clerk of the Courts, fines	4,729 00	
Sundry persons, cloth for uniforms	438 50	
		<u>5,677 50</u>
		<u>\$71,433 35</u>

	DEBIT.	
	(Expenditures.)	
Cash, paid Melville C. Parkhurst, chief	\$1,900 00	
lock-up keeper	100 00	
Robert R. Perry, captain	1,500 00	
Dennis Kelley, lieutenant	1,350 00	
Eugene A. Carter, lieutenant	1,350 00	
Charles E. Woodman, sergeant	1,297 80	
Edward McGarr, sergeant	1,200 00	
George H. Carleton, sergeant	1,190 73	
Arthur E. Keating, sergeant	1,155 45	
Eugene H. Gammon, sergeant	1,132 02	
James M. Harmon, sergeant	1,136 00	
Thomas Damery, inspector	1,103 70	
Christopher C. Cavanagh, sergeant	691 80	
retired, half-pay	254 10	
Phineas W. Skinner, patrolman	1,080 00	
Albion L. Staples, patrolman	1,080 00	
		<u>\$17,521 60</u>
Amount carried forward		

Amount brought forward . . .	\$17,521 60
John E. Fuller, patrolman . . .	1,080 00
Edward M. Carter, patrolman . . .	1,080 00
George L. Smith, patrolman . . .	1,068 00
Francis A. Perkins, patrolman . . .	1,074 00
William H. Johnston, patrolman . . .	1,053 00
Jacob W. Skinner, patrolman . . .	1,080 00
Theodore E. Heron, patrolman . . .	1,077 00
David A. Bolton, patrolman . . .	1,080 00
Michael T. Kennedy, patrolman . . .	1,083 00
Ira S. Carlton, patrolman . . .	1,080 00
Charles W. Stevens, patrolman . . .	1,080 00
Ezra A. Dodge, patrolman . . .	1,080 00
James J. Pollard, patrolman . . .	1,080 00
Daniel G. Simons, patrolman . . .	1,080 00
Samuel Burns, patrolman . . .	1,080 00
Frederick H. Googins, patrolman . . .	1,077 00
Jotham Chisholm, patrolman . . .	1,074 00
William J. Davidson, patrolman . . .	1,080 00
Elmer E. Drew, patrolman . . .	927 00
John A. Dadmun, patrolman . . .	1,080 00
Eugene A. Woodsum, patrolman . . .	1,074 00
George L. Rice, patrolman . . .	1,059 00
Myron S. Gott, patrolman . . .	1,080 00
John A. Ray, patrolman . . .	1,068 00
Herbert Hilton, patrolman . . .	1,080 00
Charles W. Reick, patrolman . . .	1,059 00
Charles E. Byrnes, patrolman . . .	1,058 75
Frank C. Hopkins, patrolman . . .	1,050 00
Charles W. Allen, patrolman . . .	1,027 50
Hudson M. Howe, patrolman . . .	926 25
Frederick J. Balcom, patrolman . . .	926 25
Ernest S. Goff, patrolman . . .	926 25
Sanford S. Lewis, patrolman . . .	923 50
Frank H. Graves, patrolman . . .	903 25
Henry A. Sudbey, patrolman . . .	895 00
Harry L. Allen, patrolman . . .	900 00
William J. Sutherland, patrolman . . .	897 50
Harvey R. Fuller, patrolman . . .	892 50
Thomas F. McNamara, patrolman . . .	900 00
Louis F. Arnold, reserve patrolman . . .	900 00
Charles S. Johnston, reserve patrolman . . .	900 00
James M. Lynch, reserve patrolman . . .	900 00
George E. Reece, reserve patrolman . . .	885 00
Martin Sharry, reserve patrolman . . .	902 50
Henry Y. Gilson, reserve patrolman . . .	565 00
Robert T. Blair, reserve patrolman . . .	475 00
Ernest Howard, reserve patrolman . . .	452 50
Theodore S. Hall, reserve patrolman . . .	352 50
George A. C. Peters, reserve patrolman . . .	262 50
Judson W. Oliver, driver . . .	900 00
Edward E. Ware, driver . . .	814 49
Frederick G. Jones, driver . . .	812 25
Martin E. Driscoll, driver . . .	94 50
Patrick H. Ryan, special patrolman . . .	10 00
Frank O. Downer, special patrolman . . .	37 50
Peter J. Savage, special patrolman . . .	10 50
John H. Kelley, special patrolman . . .	21 75
Patrick C. Coyle, special patrolman . . .	286 25

Amount carried forward . . . \$67,143 59

Amount brought forward	\$67,143 59
Herbert Bucknam, special patrolman	5 00
Edwin H. Miller, special patrolman	5 00
Lemuel J. Simons, special patrolman	305 00
Sundry persons, special services at polls	136 00
George W. Bean, retired, half-pay	540 00
John Hafford, retired, half-pay	370 50
George H. Carleton, disbursements	21 79
Lemuel Snow, disbursements	18 55
Eugene A. Carter, disbursements	111 05
Dennis Kelley, disbursements	19 00
T. F. McNamara, disbursements	1 10
Phineas W. Skinner, disbursements	1 00
George E. Reece, disbursements	11 74
David A. Bolton, disbursements	4 79
Thomas Damery, disbursements	27 98
F. W. Hopkins, committing prisoners	125 84
Gertrude A. Bauer, matron	230 00
Charles W. Dailey, use of ambulance	6 00
J. A. Marsh, hay and grain	286 41
A. P. Rockwood, board of horse	5 00
Ira L. Roberts, horseshoeing	93 50
Charles Waugh & Co., rubber tire	16 95
patrol wagon	400 00
Frank W. Leavitt, repairing wagon	37 20
Spalding Harness Co., harness work	6 90
D. J. Bennett, harness work	21 25
Jackson Caldwell, horse	150 00
Lawrence L. Pierce, veterinary services	13 75
Idella Taylor, washing	43 55
American Towel Supply Co., towels	48 00
J. H. Brooks, pillow slips	75
Mrs. William McEachern, meals for prisoners	47 25
R. M. Sturtevant & Co., supplies	12 73
C. H. Goldthwaite & Co., surgical sup- plies	4 65
M. W. White, M. D. professional services	6 00
W. A. Bell, M. D., professional services	5 00
L. P. O'Donnell, M. D., professional services	5 00
G. F. Hughes, M. D., professional services	3 00
John M. Homan, M. D., professional ser- vices	3 00
C. F. McCaffrey, M. D., professional services	2 00
C. E. Bushee, medicines	10 28
Whitney & Snow, hardware	40 04
Allen Coughlin, hardware	35
W. E. Plumer & Co., hardware	1 83
Henry Barrett, photographs	33 00
Underwood Typewriter Co., ribbon	1 00
F. S. Blanchard & Co., Mass. year book	3 00
The Frank Shepard Co., books	1 00
Hobbs & Warren Co., supplies	47 03
W. A. Greenough & Co., directories	10 50
M. L. Vinal, stationery	4 55
Somerville Journal Co., printing	34 60
F. W. Jackman, printing	2 00
Amount carried forward	<hr/> \$70,484 91

Amount brought forward	\$70,484 91
Little, Brown & Co., law books	6 75
C. M. Blake, papers	10 95
John L. Crafts, repairing show case	1 50
C. C. Luman, chair cushions	5 00
Jackson Caldwell & Co., pillow	1 00
H. Wood, making keys	40
Roderick Cameron, cloth for uniforms	388 90
Lovett, Hart & Phipps Co., cloth for uniforms	120 31
Thomas W. Talcott, cloth for service stripes	3 44
R. Masstrangialo, belts and hat trimmings	54 98
Allen Brothers, badges	9 00
Iver Johnson & Co., revolvers, etc.,	48 69
Union Glass Co., lanterns	7 00
Scoville Mfg. Co., buttons	13 50
Fresh Pond Ice Co., ice	35 00
New England Telephone and Telegraph Co., service	205 42
Somerville Electric Light Co., rent of fan	1 00
L. H. Brown, carriage hire	30 00
I. M. Grundy, expressing	2 30
E. R. Perham, expressing	15
American Express Co., expressing	1 30
A. G. Renner, expressing	30
Thorpe's Express, expressing	1 55
	<hr/>
	<u>\$71,433 35</u>

Printing and Stationery (Public Documents and Stationery for the Board of Aldermen).

CREDIT.

Appropriations, from Taxes, 1903	\$2,500 00
Transferred to Excess and Deficiency account, balance unused	674 00
	<hr/>
	<u>\$1,826 00</u>

DEBIT.

(Expenditures.)

Cash, paid Somerville Journal Co., printing annual reports, etc.	\$1,600 70
Webcowit Press, printing	3 75
George H. Walker & Co., maps	200 00
Thomas Groom & Co., stationery	21 55
	<hr/>
	<u>\$1,826 00</u>

Property and Debt Balance.

CREDIT.

Balance from 1902	\$2,125,384 98
Public Property, property acquired in 1903	112,694 23
Funded Debt, bonds paid	169,000 00
	<hr/>
	<u>\$2,407,079 21</u>

DEBIT.

Funded Debt, issue of 1903	\$197,500 00
Balance to credit of account, 1904	2,209,579 21
	<hr/>
	<u>\$2,407,079 21</u>

**Public Buildings Construction, Addition to
Bingham School.**

CREDIT.

Appropriations, from Funded Debt, 1903	\$34,500 00
Balance of account unused, carried to 1904	17,219 56

\$17,280 44

DEBIT.

(Expenditures.)

Cash, paid Wadsworth, Howland & Co., tracing cloth, etc.	\$8 24
B. L. Makepeace, blue prints	24 52
Thomas F. Maguire, land	2,493 74
James H. McGuire, land	1,187 37
City of Somerville, balance of taxes for 1903 on lot 47, Lowell street	6 04
City of Somerville, one-half taxes	14 04
John E. Locatelli, contract for construc- tion	12,914 00
Charles Cahalan, plumbing contract	400 00
F. R. Cutter, clock work	16 00
Charlestown Gas and Electric Co., ser- vice pipe	3 75
F. O. Johnson, steam fitting	25 24
Kenney Brothers & Wolkins, desk tops	187 50

\$17,280 44

**Public Buildings Construction, Clark W. Bennett
School.**

CREDIT.

Balance from 1902	\$290 93
Transferred from Reduction of Funded Debt account	211 62

\$502 55

DEBIT.

(Expenditures.)

Cash, paid Ellen Doherty, balance on land Chandler Adjustable Chair and Desk Works, furniture	\$290 91
F. W. Farrar, clock	111 00
Jackson Caldwell & Co., desks and chairs	5 00
Cambridge Gas Light Co., connecting gas	22 00
	16 01

\$444 92

Sidewalks Construction account, sidewalk	30 09
City of Somerville, assessment	27 54

\$502 55

**Public Buildings Construction, Engine House
in Ward Two.**

CREDIT.

Appropriations, from Funded Debt, 1903	\$43,000 00
Transferred to Fire Department, New Steam Fire Engine account	5,375 00

Amount carried forward \$37,625 00

Amount brought forward	\$37,625 00
Receipts:—	
Cash, received of sundry persons, rent	546 00
	<hr/>
	\$38,171 00
Balance of account unused, carried to 1904	22,260 31
	<hr/>
	\$15,910 69

DEBIT.

(Expenditures.)

Cash, paid Alice M. Rich, Marie A. Kidder, Louise A., and Arthur P. Vinal, land	\$10,000 00
Sumner Robinson, George A. Blaney, and Charles I. Travelli, land	5,500 00
Joseph J. Giles, purchasing land	137 50
Wadsworth, Howland & Co., tracing paper	3 25
B. L. Makepeace, tracing paper	17 10
	<hr/>
	\$15,657 85
City of Somerville, taxes	252 84
	<hr/>
	\$15,910 69

**Public Buildings Construction, Historical Building
and Observatory on Prospect Hill.**

CREDIT.

Appropriations, from Funded Debt, 1903	\$7,000 00
Increased by the following transfers:—	
City Engineer account	\$303 03
Public Grounds, Glen street addition	800 00
	<hr/>
	1,103 03
	<hr/>
	\$8,103 03

Receipts:—

Stock and labor billed other departments:—	
Highways, Maintenance	\$32 22
Joseph F. Wilson Memorial	39 70
Prospect Hill Park	531 21
	<hr/>
	(cash) 603 13
	<hr/>
	\$8,706 16

DEBIT.

(Expenditures.)

Cash, paid George R. Dugad, labor on tower and granite masonry	\$4,753 33
Laborers	15 00
I. H. Brown Moulding Co., lumber	28 92
E. Ricker, Son & Co., stone	178 89
Austin Ford & Son, granite	1,696 68
Herbert L. Henderson, beams	107 10
T. F. Crimmings, stone and gravel	220 16
William J. McCarthy, teams and gravel	31 50
James Tevlin, use of teams	27 75
William S. Howe, conductors	27 78
H. E. Campbell, copper box	4 90
Broad Gauge Iron Works, staff ball	4 00
John Rush Greene, doors	120 00
Enoch Robinson, iron work	134 50
	<hr/>
Amount carried forward	\$7,350 51

Amount brought forward	\$7,350 51	
L. M. Ham & Co., stairs	658 00	
Simpson Brothers Corporation, floors	325 00	
Belding Brothers, labor, etc.	47 35	
	<hr/>	
	\$8,380 86	
Public Grounds account, labor	325 30	
	<hr/>	
		<u>\$8,706 16</u>

**Public Buildings Construction, Martha Perry
Lowe School.**

CREDIT.

Balance from 1902		\$24,515 05
Appropriations, from Funded Debt, 1903	\$18,000 00	
Transferred from Reduction of Funded Debt account	29 66	
	<hr/>	
		18,029 66
		<hr/>
		\$42,544 71

DEBIT.

(Expenditures.)

Cash, paid Frederick C. Alexander, contract for construction	\$34,863 50	
Huey Brothers, contract for heating and ventilating	3,457 00	
B. L. Makepeace, blue prints	7 59	
Thomas F. Martin, contract for plumb- ing	1,785 00	
Cambridge Gas Light Co., pipe and piping	20 16	
William J. McCarthy, grading and team- ing	352 00	
Simpson Brothers Corporation, stone walks	255 30	
E. S. Sparrow & Co., supplies	40 10	
Allen, Totman & Co., umbrella racks	40 00	
L. T. Allen, shades	107 50	
Jackson Caldwell & Co., desks	85 00	
Derby Desk Co., furniture	119 56	
Doten-Dunton Desk Co., furniture	57 50	
Kenney Brothers & Wolkins, desks	187 50	
	<hr/>	
	\$41,377 71	
Public Buildings Maintenance, Schoolhouses account, furniture	1,100 00	
City of Somerville, taxes	67 00	
	<hr/>	
		<u>\$42,544 71</u>

Public Buildings Maintenance, Armory.

CREDIT.

Receipts:—		
Commonwealth of Massachusetts, allowed for armory rent		\$725 00
Transferred to Excess and Deficiency account, balance unused		48 17
		<hr/>
		\$676 83

DEBIT.

(Expenditures.)

Cash, paid J. W. Colgan, rent of armory and gas used at armory	*\$343 50	
Public Buildings Maintenance, Police account, rent of armory	333 33	
		<u>\$676 83</u>

* Originally paid in Contingent Fund account.

Public Buildings Maintenance, City Hall.

CREDIT.

Appropriations, from Taxes, 1903	\$3,800 00
Transferred from Excess and Deficiency account, balance overdrawn	826 49
	<u>\$4,626 49</u>

DEBIT.

(Expenditures.)

Cash, paid Irwin G. Felt, janitor	\$800 00
George H. Griffin, janitor	840 00
Wesley B. Higgins, substitute janitor	28 00
John H. Kelley, substitute janitor	28 00
work on boiler	2 50
Derby Desk Co., repairing furniture	1 50
W. F. Flemming, repairing furniture	12 50
Gracey & Weir, cleaning carpets	42 45
L. T. Allen, shades	5 35
Jackson Caldwell & Co., furniture	85 52
Doten-Dunton Desk Co, furniture	148 00
William S. Howe, repairing plumbing	3 00
James F. Davlin, gas fitting and plumb- ing	228 03
George W. Manning, cleaning gutters	10 00
G. F. Matthews, carpentering	164 59
C. W. Stevens, carpentering	104 20
Harris P. Tibbetts, carpentering	57 81
Charles F. Mills, carpentering	36 00
W. E. Plumer & Co., hardware	10 01
Whitney & Snow, hardware	5 50
Underhill Hardware Co., hardware	3 65
E. S. Sparrow & Co., hardware	5 00
F. C. Ayer, lumber	4 71
G. A. Walker, varnishing	9 30
W. J. Fermoye, varnishing	15 60
A. C. Gordon, painting	5 32
James Bartley, matches and soap	4 55
Mrs. E. Schuebeler, towels	4 73
Jim Hodder & Bros., towels	3 89
M. A. Mann, laundering	15 00
F. A. Higgins, pitcher, etc.	1 35
D. W. Skinner, repairing clock	2 00
H. Wood, lock work	2 20
H. A. Wheeler & Co., awnings	44 00
Chamberlin Metal Weather Strip Co., weather strip	3 25
Amount carried forward	<u>\$2,737 51</u>

Amount brought forward	\$2,737 51	
A. Duncan & Co., steam fitting	90	
A. A. Sanborn, steam fitting	8 55	
F. O. Johnson, gas fitting	10 25	
Electric Gas Lighting Co., supplies	8 89	
Knott & Co., electric work	29 27	
Cambridge Gas Light Co., gas	16 20	
Somerville Electric Light Co., lighting	1,018 27	
rent of fans	8 77	
lamps	60	
Wellington-Wild Coal Co., fuel	525 45	
Cambridge Ice Co., ice	123 18	
Hartford Steam Boiler Insp. & Ins. Co.,		
insurance	50 00	
Smith Premier Typewriter Co., type-		
writer	88 65	
		<u>\$4,626 49</u>

Public Buildings Maintenance, City Hall Annex.

CREDIT.

Appropriations, from Taxes, 1903	\$800 00
Transferred from Excess and Deficiency account, balance	
overdrawn	18 40
	<u>\$818 40</u>

DEBIT.

(Expenditures.)

Cash, paid James H. Chase, janitor	\$420 00
John H. Kelley, work on boiler	2 50
Fresh Pond Ice Co., ice	4 00
Somerville Electric Light Co., lighting	54 81
Wellington-Wild Coal Co., fuel	182 45
F. O. Johnson, steam fitting	2 80
F. C. Ayer, lumber	28 92
G. W. Manning, splicing halyards	6 50
C. W. Stevens, carpentering	24 40
Warren Hallett, carpentering	6 65
W. E. Plumer & Co., hardware	40
Underhill Hardware Co., hardware	5 75
F. W. Farrar, repairing clock	1 50
W. J. Fermoye, setting glass	5 50
Gracey & Weir, cleaning carpets	30 32
Jackson Caldwell & Co., rugs	33 75
D. P. Bucknam, repairing fire box	8 15
	<u>\$818 40</u>

Public Buildings Maintenance, Fire Department.

CREDIT.

Appropriations, from Taxes, 1903	\$4,400 00
Transferred to Excess and Deficiency account, balance	
unused	49 27
	<u>\$4,350 73</u>

DEBIT.

(Expenditures.)

Cash, paid F. C. Ayer, lumber	\$237 40
W. P. Rice, lumber	132 87
	<u>\$370 27</u>
Amount carried forward	\$370 27

Amount brought forward	\$370 27	
I. H. Brown Moulding Co., moulding	3 46	
Wm. S. Howe, grate	3 60	
D. P. Bucknam, setting grates	7 00	
A. B. Franklin, grate bars, etc.	20 30	
Foster Furnace Co., grate, etc.	26 71	
A. F. McMillan, cleaning stove	21 41	
Walsh Bros., repairing boiler, etc.	28 35	
Kellsey & Stack, repairing tank	5 50	
Wm. J. Kennedy, plumbing	13 25	
C. W. Cahalan, plumbing	61 95	
Armstrong Bros., plumbing	5 15	
W. L. Snow Co., plumbing	41 41	
J. A. Durell, plumbing	4 06	
Thomas H. Naughton, plumbing	19 33	
Jackson Caldwell & Co., furniture	68 82	
C. F. Hovey & Co., sheets and cases	47 96	
M. E. Youngjohn, blankets and com- forters	11 50	
F. W. Farrar, clock	10 00	
Lynn Stall Co., stall floors	24 00	
W. A. Snow & Co., stall floors	24 00	
J. B. Rufer, work on stalls	28 77	
Chas. F. Mills, carpentering	280 39	
G. D. B. Robinson, carpentering	7 10	
J. M. Andrews & Son, carpentering	20 66	
G. F. Matthews, carpentering	7 25	
H. P. Tibbetts, carpentering	21 01	
J. C. H. Snow, carpentering	18 46	
W. E. Plumer & Co., hardware	41 83	
Whitney & Snow, hardware	40	
E. S. Sparrow & Co., hardware	152 35	
Underhill Hardware Co., hardware	4 83	
H. G. White, hardware	17 05	
Chandler & Farquhar, hardware	42 29	
H. A. Wheeler & Co., repairing flags	2 55	
Thomas McNee, repairing roof	67 97	
J. F. Berton, shellacing	5 50	
J. H. Pattee, setting glass	6 50	
George F. Hughes, setting glass	1 50	
Cambridge Gas Light Co., gas	118 30	
Charlestown Gas & Electric Co., gas	50 90	
Somerville Electric Light Co., lighting supplies	909 99 12 83	
Wellington-Wild Coal Co., fuel	1,688 49	
L. A. Wright, repairing chair	4 50	
	<hr/>	
	\$4,329 48	
Highways, Maintenance account, granite posts	21 25	
	<hr/>	
		\$4,350 73

Public Buildings Maintenance, Health Department.

CREDIT.

Appropriations, from Taxes, 1903	\$250 00
Transferred from Excess and Deficiency account, bal- ance overdrawn	207 21
	<hr/>
	\$457 21

DEBIT.

(Expenditures.)

Cash, paid Arthur W. Berry, carpentering	\$13 75	
W. L. Waugh, carpentering	50 10	
C. F. Mills, carpentering	37 95	
Thomas McNee, roofing	90 25	
F. C. Ayer, lumber	11 99	
T. E. Littlefield, lumber	18 68	
Somerville Electric Light Co., lighting	142 54	
Wellington-Wild Coal Co., fuel . .	36 50	
E. S. Sparrow & Co., hardware . .	2 95	
W. A. Snow & Co., manger	42 00	
Arthur C. Gordon, signs	10 50	
		<u>\$457 21</u>

Public Buildings Maintenance, Highways.

CREDIT.

Appropriations, from Taxes, 1903	\$200 00
Transferred to Excess and Deficiency account, balance unused	148 16
	<u>\$51 84</u>

Receipts:—

Cash, received of Arthur Murley, rent . .	\$120 00	
Thomas Ormand, rent	120 00	
		<u>240 00</u>
		<u>\$291 84</u>

DEBIT.

(Expenditures.)

Cash, paid J. A. Durell, repairing leak . .	\$1 40	
E. S. Sparrow & Co., hardware	15 66	
G. W. Manning, labor and cement	10 62	
New England Bolt & Nut Co., bolts	5 74	
Thomas H. Naughton, plumbing	9 12	
Wm. S. Howe, plumbing	13 00	
F. O. Johnson, plumbing	11 35	
Somerville Electric Light Co., lighting	115 93	
T. Allen, tar	3 00	
F. C. Ayer, lumber	25 17	
Chas. F. Mills, carpentering	70 50	
		<u>\$281 49</u>
City of Somerville, highway assessment . .	10 35	
		<u>\$291 84</u>

Public Buildings Maintenance, Police.

CREDIT.

Appropriations, from Taxes, 1903	\$2,600 00
Transferred to Excess and Deficiency account, balance unused	358 54
	<u>\$2,241 46</u>

Receipts:—

Cash, received of J. O. Hayden, county treasurer, rent of court room	\$900 00
Amount carried forward	<u>\$900 00</u>

Amount brought forward	\$900 00	
Stock and labor billed other departments:—		
Public Buildings Maintenance, Armory		
account, rents from Commonwealth .	333 33	
	<hr/>	1,233 33
		<hr/>
		\$3,474 79

DEBIT.

(Expenditures.)

Cash, paid Frank Millar, janitor	\$850 00	
Edwin B. Price, janitor	158 00	
Augustus Robinson, janitor	36 00	
Wm. S. Howe, plumbing	129 14	
Thomas H. Naughton, plumbing	6 53	
C. W. Lerner & Co., disinfectant	36 05	
W. E. Plumer & Co., hardware	6 03	
Whitney & Snow, hardware	15 31	
I. H. Brown Moulding Co., drawers	88 50	
G. D. B. Robinson, carpentering	240 28	
A. F. McMillan, work on stove	9 47	
A. A. Sanborn, steam fitting	9 40	
John H. Kelley, work on boiler	2 50	
Broad Gauge Iron Works, brass ball	7 00	
G. W. Mannings, repairing flagstaff	38 75	
Wm. H. Brine Co., flag	15 00	
Jackson Caldwell & Co., furnishings	157 40	
G. M. Fortin, setting glass	6 55	
A. C. Gordon, setting glass	1 50	
John Kennedy, plastering	218 78	
G. G. Lyman, repairing chair	10 00	
Couch & Seeley Co., phone	12 50	
Cambridge Gas Light Co., gas	504 30	
Somerville Electric Light Co., lighting	155 21	
rent of fan	9 00	
Gas Consumers' Association, gas regu-		
lation	22 00	
Wellington-Wild Coal Co., fuel	659 54	
H. Wood, sharpening mower, etc.	20 05	
Hartford Steam Boiler Inspection &		
Insurance Co., insurance	50 00	
	<hr/>	\$3,474 79
		<hr/>

Public Buildings Maintenance, Public Grounds.

CREDIT.

Appropriations, from Taxes, 1903	\$75 00	
Transferred to Excess and Deficiency account, balance		
unused	40 45	
	<hr/>	\$34 55

DEBIT.

(Expenditures.)

Cash, paid E. Horne, repair-		
ing chimney	25 55	
A. C. Gordon, painting signs	4 00	
Geo. W. Manning, lowering		
staff	5 00	
H. P. Tibbetts, carpentering	\$23 56	
	23 56	
	<hr/>	0 00
		<hr/>
		\$34 55

Public Buildings Maintenance, Public Library.

CREDIT.

Appropriations, from Taxes, 1903	\$3,800 00
Transferred from Excess and Deficiency account, balance overdrawn	857 13
	<hr/>
	\$4,657 13

DEBIT.

(Expenditures.)

Cash, paid Charles A. Southwick, janitor	\$1,000 00
Edwin Adler, janitor	28 00
W. J. Fermoyale, glazing and varnishing	109 10
G. F. Matthews, carpentering	38 34
W. W. Calkin, carpentering	5 11
G. W. Manning, carpentering	1 00
L. A. Penney, carpentering	27 77
Alice M. Thornton, cleaning	11 64
Underhill Hardware Co., hardware	11 10
Whitney & Snow, hardware	2 75
D. P. Buckman, work on boiler	27 38
John H. Kelley, work on boiler	2 50
W. F. Flemming, repairing furniture	9 00
Wm. F. Eccles, reupholstering	71 50
J. M. Burckes, plastering	17 50
Thomas Dowd, plastering	21 60
Wellington-Wild Coal Co., fuel	740 09
Cambridge Ice Co., ice	9 20
Cambridge Gas Light Co., gas	70 20
Union Glass Co., globes	3 25
Electric Gas Lighting Co., supplies	45 33
Knott & Co., electric work	18 18
H. G. White, electric work	29 25
Somerville Electric Light Co., lighting	2,357 34
	<hr/>
	\$4,657 13

Public Buildings Maintenance, Schoolhouses.

CREDIT.

Appropriations, from Taxes, 1903	\$51,170 00
Transferred from Excess and Deficiency account, balance overdrawn	2,349 48
	<hr/>
	\$53,519 48

Receipts:—

Cash, received of Henry B. Sellon, lighting	\$20 80
J. E. L. McLean, lighting	1 05
Nathan H. Reed & Son, old iron	29 15
Mina J. Wendell, damages	1 50
	<hr/>
	\$52 50

Stock and labor billed other departments:—

Public Buildings Construction, Martha
Perry Lowe School

1,100 00

1,152 50

\$54,671 98

DEBIT.

(Expenditures.)

Cash, paid janitors' salaries	\$21,247 10
George H. Maynard, plumbing	33 25
James W. O'Neil, plumbing	193 01
Thomas H. Naughton, plumbing	58 90
H. E. Campbell, plumbing	1 35
John H. Adcock, plumbing	8 15
H. W. Covell, plumbing	14 27
J. A. Durell, plumbing	125 37
Wm. S. Howe, plumbing	217 51
J. E. Parsons, plumbing	10 50
W. L. Snow & Co., plumbing	61 36
Armstrong Bros., plumbing	213 59
James F. Davlin, plumbing	57 42
Kellsey & Stack, plumbing	45 05
Andrews & Andrews, plumbing	95 00
C. W. Cahalan, plumbing	26 43
Frank O. Johnson, plumbing	221 23
M. C. Short, plumbing	3 18
Edwin Connell, plumbing	4 00
Isaac Coffin & Co., steam fitting	233 29
A. Duncan & Co., steam fitting	448 57
A. A. Sanborn, steam fitting	253 75
Daniel T. Campbell, repairing boilers	12 50
John H. Kelley, repairing boilers	91 95
C. E. Terrio, gas fitting	16 00
S. W. Stack & Son, gas fitting	6 00
J. F. O'Brien, removing pipes	9 00
Charles E. Berry, iron work	5 81
J. B. Rufer, iron work	5 95
C. L. Underhill, iron work	11 60
I. B. Walker, iron work	22 35
Jas. H. Roberts & Co., iron work	67 11
Roberts Iron Works Co., iron work	31 77
Cunningham Iron Co., furnace work	3 00
R. W. Doe, furnace work	4 90
J. W. Johnson, furnace work	85 22
Continental Grate Co., furnace work	100 25
Hutchinson & Gethin, furnace work	1 56
A. F. McMillan, furnace work	87 54
Charles H. M. Hunnewell, furnace work	67 88
D. P. Bucknam, mason work	495 14
B. E. Higgins, mason work	15 50
Ganey & Burke, mason work	15 65
H. P. Lovering, mason work	77 83
Walsh Brothers, mason work	5 23
John Kennedy, plastering	171 65
Thomas Dowd, plastering	99 38
Percy Lowell, whitewashing	52 00
W. B. Higgins, whitewashing	4 00
Charles A. Kelley, laying drain	25 50
Allen, Totman & Co., coating black-boards, etc. . . .	168 26
J. E. Bell, slated paper	17 74
Wm. H. Brine, flags, etc. . . .	54 13
L. E. Clayton, cheesecloth	75
T. E. Littlefield, lumber	4 50

Amount carried forward \$25,409 93

Amount brought forward	\$25,409 93
F. C. Ayer, lumber	101 33
John M. Woods & Co., lumber	64 36
W. P. Rice, lumber	2 28
I. H. Brown Moulding Co., moulding	6 85
E. J. Cogan, carpentering	4 20
L. A. Penney, carpentering	99 12
James Kenney, carpentering	242 20
Warren Hallett, carpentering	60 10
G. F. Matthews, carpentering	117 30
G. D. B. Robinson, carpentering	29 78
A. M. Waining, carpentering	288 30
Harris P. Tibbetts, carpentering	74 79
Sylvester Woods, carpentering	30 31
H. S. Brackett, carpentering	10 33
Arthur W. Berry, carpentering	114 98
C. F. Mills, carpentering	42 00
J. C. H. Snow, carpentering	9 00
P. S. Lynch, carpentering	3 00
W. W. Calkin, carpentering	372 76
Daniel E. Robbins, carpentering	10 05
A. M. Godfrey, carpentering	53 94
W. H. Bullard, oil	70
C. E. Delano, oil	70
Wm. C. Robinson & Son Co., oil	16 00
N. E. Fleming, cleaning	40 00
James A. Norton, cleaning floor	13 00
Joseph K. James, cleaning material	1 50
Talbot & Co., disinfectant	12 00
C. W. Lerner & Co., disinfectant	132 50
H. James & Son, soap	19 50
G. W. Norton, soap	5 60
Lever Brothers, soap powder	10 80
Kleena Co., Kleena	3 00
P. Sutherland & Co., polish	15 05
F. T. Lord Polish Co., polish	7 80
E. S. Kearney, sawdust	20 00
L. Ryan, sawdust	1 00
W. J. Fermoye, painting	282 65
J. D. Ford, painting	10 10
J. Q. Twombly, painting	88 54
H. H. Mayville, painting	29 34
J. H. Pattee, painting	15 00
Arthur C. Gordon, setting glass	56 00
G. A. Walker, setting glass	103 60
Emery & Blaisdell, setting glass	14 00
J. B. Boynton, setting glass	8 60
J. F. Berton, setting glass	13 50
F. N. Smith, setting glass	6 75
Wm. J. Blaisdell, setting glass	23 00
R. C. Burckes, setting glass	10 25
John T. Sellon, setting glass	57 32
W. F. Flemming, repairing furniture	30 05
N. L. Pennock, repairing furniture	12 00
C. E. Mitchell, repairing curtains	3 25
L. T. Allen, shades	125 60
Gracey & Weir, cleaning carpets	13 40
Wm. F. Eccles, cleaning carpets	10 26
E. O. Arnold & Co., cleaning carpets	9 18
Amount carried forward	<hr/> \$28,368 45

Amount brought forward	\$28,368 45
Geo. W. Manning, splicing halyards	133 89
W. E. Plumer & Co., hardware	322 65
E. S. Sparrow & Co., hardware	198 18
Underhill Hardware Co., hardware	276 49
Whitney & Snow, hardware	147 84
Chandler & Farquhar, hardware	7 76
A. J. Wilkinson & Co., hardware	70
Providence Ideal Ventilator Co., venti- lators	22 50
J. Wood, dust layer	1 40
Union Square Furniture Co., furniture	19 95
Jackson Caldwell & Co., furniture	52 05
Heywood Brothers & Wakefield Co., furniture	3 38
Kenney Brothers & Wolkins, furniture	10 80
Chandler Adjustable Chair & Desk Works, furniture	1,086 60
D. L. Wood, furniture moving	26 25
W. H. Wood, furniture moving	24 75
A. C. Libby & Son, stationery	10 50
Ernest Esterbrook, labor	3 00
W. L. Waugh, labor	5 01
R. F. Thompson, loam, sods, etc.	20 00
J. H. Fannon, concreting and loam	483 90
Patrick Bowdren, care of grounds	223 20
Bartholomew Burke, work on grounds	42 34
Patrick Burke, grading grounds	41 45
Thomas Allen, concreting	113 70
Richard Falvey, loam	6 00
Hartford Steam Boiler Inspection and insurance Co., insurance	650 00
Nu-Broom Co., brooms	24 50
Shepard, Clark & Co., sponges	14 65
Maurice J. Goggin, ash barrels, etc.	47 00
Murphy, Leavens & Co., brushes and dusters	68 05
W. G. Hallock, floor brushes	34 00
Joseph J. Dunn & Co., ash cans	36 00
Thomas McNee, roofing	60 75
Gutta Percha & Rubber Mfg. Co., hose	12 00
Boston Woven Hose & Rubber Co., gaskets	7 09
Lumsden & Van Stone Co., gaskets	51 45
Dalton, Ingersoll Co., packing	1 92
Henry K. Barnes, belts and lacing	26 99
H. Wood, lock work	27 45
F. W. Farrar, clock work	23 75
Blodgett Bros. & Co., clock work	2 70
David W. Skinner, clock work	12 00
Electric Gas Lighting Co., supplies	103 05
S. H. Couch Co., electric work	20 40
Crouse-Hinds Electric Co., electric work	150 00
H. G. White, electric work	143 87
Johnson Electric Service Co., electric work	58 17
McKenney & Waterbury Co., lamps	28 00
Cambridge Gas Light Co., gas	734 02

Amount carried forward \$33,990 55

Amount brought forward	\$33,990 55
Charlestown Gas & Electric Co., gas	318 50
Somerville Electric Light Co., lighting	663 35
motor	1,001 46
generator and rent of fans	45 00
supplies	36 61
Gas Consumers' Association, gas regu- lation	34 00
Wellington-Wild Coal Co., fuel	17,990 22
Riding & Driving Club, dinners	8 00
George W. Prichard, teaming and car- riage hire	27 87
Howard Lowell & Son, board of horse	176 05
Geo. F. McKenna, use of team	37 75
Geo. McDormand, horseshoeing	14 00
M. D. Lewis, team	6 00
Glines & Co., expressing	73 78
E. R. Perham, expressing	2 67

\$54,425 81

Highways, removing brown-tail moths account, labor	27 63
Sewers, Construction account, drainage	24 61
Sewers, Maintenance account, drainage	53 54
City of Somerville, assessments	140 43

\$54,671 98

Public Buildings Maintenance, Sewer Department.

CREDIT.

Appropriations, from Taxes, 1903	\$125 00
Transferred to Excess and Deficiency account, balance unused	59 90
	<hr/> \$65 10

DEBIT.

(Expenditures.)

Cash, paid A. C. Gordon, painting	\$61 10
Michael H. Kelley, spout	4 00
	<hr/> \$65 10

Public Buildings Maintenance, Support of Poor.

CREDIT.

Appropriations, from Taxes, 1903	\$600 00
Transferred from Excess and Deficiency account, balance overdrawn	292 74
	<hr/> \$892 74

Receipts:—

Cash, received of W. B. Mackay, rent	175 00
	<hr/> \$1,067 74

DEBIT.

(Expenditures.)

Cash, paid Cambridge Gas Light Co., gas	\$30 10
Somerville Electric Light Co., lighting	258 31
Wellington-Wild Coal Co., fuel	310 13
W. L. Snow Co., plumbing	40 15

Amount carried forward \$638 69

Amount brought forward	\$638 69	
Underhill Hardware Co., hardware	2 00	
E. S. Sparrow & Co., hardware	90	
Edwin Connell, boiler and wash trays,	115 22	
H. P. Tibbetts, carpentering	85 31	
J. C. H. Snow, carpentering	145 52	
A. M. Waining, carpentering	1 40	
L. W. Bowen, paper	23 67	
J. F. Berton, paper hanging	5 50	
Andrew Dutton, shades	20 33	
H. Wood, keys	4 50	
Walsh Bros., mason work	19 75	
Kellsey & Stack, plumbing	3 60	
Chas. M. H. Hunnewell, plumbing	1 35	
		<hr/>
		\$1,067 74

Public Buildings Maintenance, Water Department.

CREDIT.		
Appropriations, from Taxes, 1903		\$100 00
Transferred from Excess and Deficiency account, balance overdrawn		114 95
		<hr/>
		\$214 95

DEBIT.

(Expenditures.)

Cash, paid Arthur W. Berry, carpentering,	\$3 30	
W. L. Snow Co., paint, etc.	4 10	
W. L. Waugh, carpentering	33 99	
C. F. Mills, carpentering	19 60	
Somerville Electric Light Co., lighting	107 50	
Wellington-Wild Coal Co., fuel	46 46	
		<hr/>
		\$214 95

Public Grounds.

CREDIT.

Appropriations, from Taxes, 1903	\$10,500 00	
Trasferred to Excess and Deficiency account, balance unused		36
		<hr/>
		\$10,499 64

Receipts:—

Cash, received of Boston Elevated Railway Co., maintenance Broadway parkway,	\$100 00	
Sundry persons, part cost of division fence	50 00	
William H. Berry, old building	200 00	
A. L. Proctor, old lawn mower	1 00	
		<hr/>
	\$351 00	
Stock and labor billed other departments:—		
Joseph F. Wilson Memorial	20 00	
Public Buildings Construction, Historical Building and Observatory on Prospect Hill	325 30	
Public Grounds, Improvement Play- ground Poplar, corner Joy street	250 00	
		<hr/>
		946 30
		<hr/>
		\$11,445 94

DEBIT.

(Expenditures.)

Cash, paid laborers	\$7,645 69	
	5 25	
		\$7,640 44
F. C. Ayer, lumber		38 55
I. H. Brown Moulding Co., lumber		2 00
Z. E. Cliff, lumber		16 36
The Cornelius Callahan Co., hose, etc.		22 50
Charles E. Berry, repairing tools		17 57
L. A. Wright, wedges		7 80
C. L. Underhill, tools		75
Waldo Brothers, pipe and cement		113 00
Highland Coal Co., lime		2 80
J. A. Durell, tools and supplies		35 43
Whitney & Snow, hardware		353 86
E. S. Sparrow & Co., hardware		18 70
Underhill Hardware Co., hardware		85 20
W. E. Plumer & Co., hardware		17 68
Ames Plow Co., knife		4 50
Thomas J. Grey & Co., knives and screws		2 40
G. W. Manning, repairing flagstaff		81 12
Mrs. A. H. Wood, repairing flags		15 00
Suburban Coal Co., coal		31 50
D. J. Bennett, harness work		6 75
James Tevlin, teaming		223 58
T. F. Crimmings, labor and use of team		537 48
G. W. Prichard, use of horse		125 00
Howard Lowell & Son, carriage hire		15 00
Fulton O'Brien, oats		3 20
Belding Brothers, carpentering		3 85
C. W. Stevens, carpentering		133 65
William H. Kelley, fencing		129 10
I. K. Kimball & Co., seat slats		6 00
A. A. Smith, repairing fence and seats		37 40
T. F. McGann & Sons Co., railings and posts		85 00
I. B. Walker, repairing platform, etc.		91 37
H. Wood, sharpening tools		33 65
Michael H. Kelley, maple stand, etc.		35 90
George F. McKenna, dressing		28 00
John F. Elkins, loam		19 35
J. W. Howard, plants, loam, etc.		798 05
T. Allen, concreting		36 65
James Bartley, salt		1 60
Jairus Mann, disbursements		23 20
W. H. Wyman, trees and plants		196 68
Arthur C. Gordon, painting		182 38
		<hr/>
		\$11,260 00
Highways, Removing Brown-tail Moths account, removing moths		37 00
Public Grounds, Prospect Hill park, Completion account, labor, teams, etc.		72 25
Sewers, Maintenance account, labor, etc.		36 00
Water Maintenance account, pipe and labor		40 69
		<hr/>
		\$11,445 94

Public Grounds, Glen Street Addition.

CREDIT.

Balance from 1902	\$800 00
Transferred to Public Buildings Construction, Historical Building and Observatory on Prospect Hill account	<u>\$800 00</u>

Public Grounds, Improvement Playground, Poplar corner Joy Street.

CREDIT.

Appropriations, from Funded Debt, 1903	\$250 00
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DEBIT.

(Expenditures.)

Cash, paid Public Grounds account, laying out, grading, and constructing grounds	<u>\$250 00</u>
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Public Grounds, Land on Prospect Hill.

CREDIT.

Balance from 1902	\$131 60
Transferred to Public Grounds, Prospect Hill Park	<u>\$131 60</u>

Public Grounds, Prospect Hill Park (Completion).

CREDIT.

Balance from 1902	\$1 34
Appropriations, from Funded Debt, 1903	1,000 00
Transferred from Public Grounds, Land on Prospect Hill account	131 60
Receipts:—	
Stock and labor billed other departments:—	
Public Grounds (cash)	72 25
	<u>\$1,205 19</u>

DEBIT.

(Expenditures.)

Cash, paid J. W. Howard, planting trees and shrubs	\$319 11
Joseph H. Bath, shrubs	3 50
W. H. Wyman, shrubs	21 24
T. Allen, concreting	164 75
F. C. Ayer, lumber	28 52
C. W. Stevens, lumber, etc.	103 24
G. W. Manning, labor on flag pole	19 25
W. E. Plumer & Co., rope	52
I. B. Walker, iron work	13 85
	<u>\$673 98</u>

Public Buildings Construction, Historical Building and Observatory on Prospect Hill account, grading and completion of mound and tower base	531 21
	<u>\$1,205 19</u>

Public Library.

CREDIT.

Appropriations, from Taxes, 1903	\$14,800 00
Transferred to Excess and Deficiency account, balance unused	2 67
	<u>\$14,797 33</u>
Amount carried forward	

Amount brought forward	\$14,797 33
Receipts:—	
Cash, received of county treasurer, return on amount received of the city for dog li- censes in 1902	\$3,393 02
Sam Walter Foss, librarian, fines	434 64
catalogues, etc.	141 99
	<hr/>
	3,969 65
	<hr/>
	\$18,766 98

DEBIT.

(Expenditures.)

Cash, paid Sam Walter Foss, salary as li- brarian	\$2,499 96
disbursements	80 57
Adele Smith, assistant librarian	699 96
F. Mabel Norcross, cataloguer	50 00
Esther M. Mayhew, cataloguer	598 27
Edith B. Hayes, assistant cataloguer	433 13
Anna L. Stone, assistant	500 04
Mary J. Warren, assistant	500 04
Mabel E. Bunker, assistant	583 24
Mary S. Woodman, assistant	500 04
Florence D. Hurter, assistant	500 04
Bessie L. Duddy, assistant	483 36
Nellie M. Whipple, assistant	366 64
Alice M. Sears, assistant	274 98
Florence M. Barber, assistant	133 28
Gardner Stacey, assistant	234 47
David Countway, assistant	71 55
Charles A. Perry, assistant	170 22
F. Stuart Dean, assistant	130 65
Trueman Cushing, assistant	66 23
John R. Anderson Co., books	8 91
American Newspaper Association, books	42 00
American Book Co., books	4 80
D. Appleton & Co., books	13 15
J. Q. Adams & Co., books	15 00
William R. Bradford, books	8 00
N. J. Bartlett & Co., books	23 70
F. S. Blanchard & Co., books	3 00
William F. Butler, books	1 28
Drexel Biddle, books	1 22
Burnham Antique Book Store, books	32 40
Walter H. Baker & Co., books	1 40
William Briggs, books	1 25
Burrows Brothers Co., books	3 60
The Baker & Taylor Co., books	77 04
Albert Britnell, books	75
Balch Brothers Co., books	33 80
Bates & Guild Co., books	16 00
Congdon & Britnell, books	2 00
Christian Culture Press, books	3 00
Arthur H. Clark Co., books	21 32
George Clarke, books	33 00
Thomas Y. Crowell & Co., books	3 08
Cumulative Index Co., books	8 75
Century Co., books	12 41
Cupples & Schoenhof, books	75 65
	<hr/>
Amount carried forward	\$9,323 18

Amount brought forward	\$9,323 18
Frank W. Coburn, books	75
Colesworthy's Book Store, books	5 00
Co-operative Asso'n of America, books	2 00
A. B. Cross, books	1 75
Doubleday, Page & Co., books	27 00
Dana Estes & Co., books	2 68
G. W. Dillingham Co., books	79
Dodd, Mead & Co., books	58 16
Desmond Publishing Co., books	224 85
Damrell & Upham, books	3 00
A. W. Dunton & Co., books	3 00
E. P. Dutton & Co., books	5 40
DeWolfe, Fiske & Co., books	28 09
Essex Publishing Co., books	76 25
Charles Evans, books	15 00
Federal Book Co., books	14 00
T. T. Fryer, books	31 55
Funk & Wagnalls Co., books	45 20
F. W. Faxon, books	35
Goodspeed's Book Shop, books	4 50
Ginn & Co., books	2 82
W. A. Greenough & Co., books	7 00
C. S. Gurney, books	1 25
Francis P. Harper, books	2 35
Herbert J. Harwood, books	1 50
Hinds & Noble, books	2 20
D. C. Heath & Co., books	2 26
A. L. Haskell, books	7 30
Richard Hodgson, Treasurer, books	25 05
L. R. Hamersly & Co., books	3 00
Hand-print Book-folk, books	1 25
Houghton, Mifflin & Co., books \$153 59	
10 00	
	<hr/>
	143 59
B. W. Huebsch, books	1 60
B. Herder, books	2 12
Home Science Publishing Co., books	25 45
Norman W. Henley & Co., books	5 69
Henry Holt & Co., books	4 88
Harper & Brothers, books	59 87
H. S. Inman, books	9 00
Int. Text-Book Co., books	38 00
Industrial Art League, books	2 41
Index Publishing Co., books	1 50
George W. Jacobs & Co., books	1 02
King, Richardson & Co., books	2 75
J. D. Kenyon Co., books	2 00
C. A. Kirkpatrick, books	3 00
Library Bureau, books	3 00
Longmans, Green & Co., books	1 04
John Lane, books	5 10
Laird & Lee, books	86
George F. Lasher, books	7 50
Little, Brown & Co., books	3,407 96
George E. Littlefield, books	54 55
Lee & Shepard, books	102 88
C. F. Libbie & Co., books	46 21
Charles E. Lauriat Co., books	64 43
Amount carried forward	<hr/> \$13,924 89

Amount brought forward	\$13,924 89	
J. B. Lippincott Co., books	14 43	
McClure, Phillips & Co., books	91	
Joel Munsell's Sons, books	4 28	
A. N. Marquis & Co., books	3 50	
Cora E. McDevitt, books	31 71	
S. F. McLean, books	53 63	
Macmillan Co., books	103 80	
John Moore, books	18 75	
George D. Morse, books	1 00	
A. C. McClurg & Co, books	7 03	
Joseph McDonough, books	11 00	
Henry Malkan, books	9 55	
New Hampshire Publishing Corporation books	6 00	
National Education Association, books	2 00	
North River Bindery, books	4 50	
New England Stamp Co., books	38 80	
Old Corner Book Store, books	57 17	
Occult Book Concern, books	1 50	
Oakwood Publishing Co., books	3 95	
Oxford University Press, books	8 75	
Fred W. Parson, books	\$10 00	
	5 00	
		5 00
G. P. Putnam's Sons, books	5 65	
L. C. Page & Co., books	3 15	
Publishers' Weekly, books	4 50	
The Prince Society, books	4 00	
Philadelphia Book Store Co., books	156 98	
Public School Publishing Co., books	1 00	
The Perrien-Keydel Co., books	4 50	
Republican Co., books	50	
Fleming H. Revell Co., books	1 34	
Research Publishing Co., books	\$16 00	
	1 50	
		14 50
The Reprint Co., books	3 50	
W. B. Saunders & Co., books	6 00	
Charles Scribner's Sons, books	62 87	
R. O. Sherwood, books	3 45	
Frederick Starr, books	1 50	
Sibley & Co., books	10 00	
Silver, Burdett Co., books	3 60	
E. S. Stackpole, books	7 00	
George W. Smith, books	3 50	
Arthur M. Smith, books	2 00	
F. P. Spokesfield, books	2 76	
Adele M. Smith, books	1 00	
Sampson, Murdock & Co., books	6 00	
Scientific American Club, books	36 00	
Somerville Journal Co., books	21 93	
G. P. Strong, books	2 25	
J. Herbert Thompson, books	31 63	
The Times, books	45 00	
H. L. Tuesley, books	5 00	
University of Chicago, books	1 00	
University Book Store, books	3 00	
Amount carried forward	\$14,767 26	

Amount brought forward	\$14,767 26
D. Van Nostrand Co., books	4 05
James H. West Co., books	2 45
Frederick Warne & Co., books	3 43
Helen T. Wild, books	1 06
H. W. Wilson & Co., books	6 40
Amelia H. Wood, books	2 50
Oliver Ditson Co., music books, \$22 80	
	66
	<hr/>
	22 14
Boston Music Exchange, music books . .	3 05
A. R. Andrews, supplies	1 65
J. A. Bremner & Co., supplies	1 35
Library Art Club, pictures	5 00
Benjamin F. Freeman, pictures	2 00
Eastern Drug Co., stationery	21 20
Thomas Groom & Co., stationery	88 31
Beck Duplicator Co., stationery	3 90
Gaylord Brothers, stationery	45
Neostyle Co., neostyle and supplies . .	54 25
Essex Institute, periodicals	6 00
W. H. Guild & Co., periodicals, \$411 20	
	5 90
	<hr/>
	405 30
Library Bureau, periodicals	1 00
Publishers' Weekly, periodicals	11 50
Boston Herald Co., periodicals	36
F. A. Draper, periodicals	1 00
New England Publishing Co., periodicals	7 50
C. M. Blake, periodicals	4 50
Christian Work, periodicals	2 00
Medford Historical Society, periodicals	1 00
Boston Book Co., periodicals	149 35
Daily People, periodicals	50
Hub Magazine Co., periodicals	8 00
Leader Publishing Co., periodicals . . .	1 90
Esoteric Fraternity, periodicals	1 50
George T. Bailey, periodicals	22 88
Patriotic Review, periodicals	1 00
Journal of Pedagogy, periodicals, \$3 00	
	3 00
	<hr/>
	0 00
Somerville Historical Society, periodicals	2 00
The Picayune, periodicals	12 00
Collector of Customs, periodicals . . .	5 00
Massachusetts Society for Prevention of Cruelty to Animals, periodical	1 00
Somerville High School Radiator, peri- odical	75
George E. Whittaker, periodical	1 25
John W. Cadby, periodical	25 25
David Farquhar, binding books	1,248 86
J. B. H. Longfellow, binding books . .	207 00
Massachusetts Book Renovating Co., binding	11 25
Quincy E. Brewster, binding	20 70
Edward Jaquith, binding books	11 30
Arthur Hughes, agency	5 38
Mrs. I. E. Wadsworth, agency	75 80
	<hr/>
Amount carried forward	\$17,243 28

Amount brought forward	\$17,243 28
S. A. Riker, agency	16 09
S. Louise Chandler, agency	19 19
A. M. Young, agency	35 64
Nourse & Wilson, agency	3 85
A. J. Jackson, agency	15 68
H. E. Bowman, agency	2 95
M. L. Vinal, agency	1 31
S. M. Haskell, agency	8 84
Somerville Journal Co., printing	238 25
Webcowit Press, printing	218 75
C. A. Southwick, labor	73 90
D. W. Skinner, repairing	1 00
Library Bureau, cards, etc.	44 40
Library of Congress, cards	50 00
Somerville Post-office, postage	60 00
C. S. Robertson, insurance	191 25
Cambridge Ice Co., ice	10 10
Stearns & Henderson, desk	31 25
New England Telephone & Telegraph Co., service	77 18
George Wilber, expressing	17 55
Thorpe's Express, expressing	1 15
Gilman Express Co., expressing	139 50
E. R. Perham, expressing	54 59
Taylor's Express, expressing	172 00
American Express Co., expressing	38 28
I. M. Grundy, expressing	30
Ernest S. Dow, expressing	15
London's Express, expressing	55
	<hr/>
	\$18,766 98

Public Library, Isaac Pitman Fund, Art.

CREDIT.

Amount held in trust, income to be used for art \$4,000 00

DEBIT.

Balance to credit of account, 1904 \$4,000 00

Public Library, Isaac Pitman Fund, Poetry.

CREDIT.

Amount held in trust, income to be used for poetry \$1,000 00

DEBIT.

Balance to credit of account, 1904 \$1,000 00

Public Library, Isaac Pitman Fund, Income, Art.

Balance from 1902 \$16 56

Receipts:—

Cash, income from invested funds 160 00

\$176 56

Balance of account unused, carried to 1904 87 15

\$89 41

DEBIT.

(Expenditures.)

Cash, paid Robey French Co., pictures	\$2 50	
Frederick Starr, pictures	1 10	
T. T. Fryer, pictures	50 00	
A. W. Hancock, pictures	11 61	
George R. King, pictures	10 00	
Horace K. Turner, pictures	14 20	
		<u>\$89 41</u>

Public Library, Isaac Pitman Fund, Income, Poetry.

CREDIT.

Balance from 1902	\$48 63	
Receipts:—		
Cash, income from invested funds	40 00	
		<u>\$88 63</u>
Balance of account unused, carried to 1904	41 49	
		<u>\$47 14</u>

DEBIT.

(Expenditures.)

Cash, paid H. A. Dickerman & Son, books	\$ 67	
Old Corner Book Store, books	10 00	
Little, Brown & Co., books	26 47	
Samuel French, books	10 00	
		<u>\$47 14</u>

Public Library, Isaac Pitman Fund, Investment Account.

CREDIT.

Balance to debit of account, 1904	\$5,000 00	
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DEBIT.

Balance from 1902 (West End Railway bonds, par value)	<u>\$5,000 00</u>	
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Public Property.

CREDIT.

Balance to debit of account, 1904	\$3,715,079 21	
---	----------------	--

DEBIT.

Property and Debt Balance, property ac-		
quired in 1903	\$112,694 23	
Balance from 1902	3,602,384 98	
		<u>\$3,715,079 21</u>

Real Estate Liens.

CREDIT.

Balance to debit of account, 1904	\$2,140 00	
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DEBIT.

Balance from 1902	<u>\$2,140 00</u>	
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Reduction of Funded Debt.

CREDIT.

Appropriations, from Taxes, 1903	\$118,000 00
Water Works Income, amount appropriated	40,552 78
Renewal of Funded Debt, amount of appropriation transferred	18,000 00

\$176,552 78

Reduced by the following transfers:—

Contagious Disease Hospital and Land	\$400 00
Highways, Boston-avenue bridge	652 44
Public Buildings Construction, Clark W. Bennett school	211 62
Public Buildings Construction, Martha Perry Lowe school	29 66
Interest	1,354 75
Health Department	4,827 80

\$7,476 27

Excess and Deficiency, balance unused	3,748 56
---	----------

11,224 83

\$165,327 95

Receipts:—

Cash, received of Estabrook & Co., premium on bonds	\$2,441 25
N. W. Harris & Co., premium on bonds	1,230 80

3,672 05

\$169,000 00

DEBIT.

(Expenditures.)

Cash, paid bonds, maturing in 1903	\$169,000 00
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Renewal of Funded Debt.

CREDIT.

Appropriations, from Funded Debt, 1903	\$18,000 00
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DEBIT.

Reduction of Funded Debt, amount of appropriation transferred	\$18,000 00
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School Contingent.

CREDIT.

Appropriations, from Taxes, 1903	\$24,000 00
Transferred from Excess and Deficiency account, balance overdrawn	1,556 29

\$25,556 29

Receipts:—

Cash, received of G. A. Southworth, superintendent, damage to property	\$35 00
Commonwealth of Massachusetts, tuition of state wards	60 00
G. A. Pevey, tuition	16 64
Mrs. J. E. Unwin, tuition	4 77

116 41

\$25,672 70

DEBIT.

(Expenditures.)

Cash, paid Gordon A. Southworth, salary as superintendent of schools	\$3,000 00
disbursements	215 94
Cora S. Fitch, assistant	650 00
Lemuel Snow, truant officer	1,100 00
board of horse	240 00
Jairus Mann, truant officer	50 00
Middlesex County Truant School, board of truants	629 29
American Book Co., books	1,834 01
Allyn & Bacon, books	136 75
D. Appleton & Co., books	50 00
Mary Alderson Atherton, books . . .	10 00
F. S. Blanchard & Co., books	3 00
Boston School Supply Co., books . . .	30 55
Edward E. Babb & Co., books	640 90
DeWolfe, Fiske & Co., books	240 50
Educational Publishing Co., books . .	151 86
Funk & Wagnalls Co., books	11 35
Ginn & Co., books	1,519 03
Houghton, Mifflin & Co., books . . .	172 39
Henry Holt & Co., books	137 23
D. C. Heath & Co., books	336 21
Lothrop Publishing Co., books	31 79
Longmans, Green & Co., books	56 13
Lee & Shepard, books	30 15
Maynard, Merrill & Co., books	165 40
The Morse Co., books	341 55
Isaac Pitman & Sons, books	21 65
Powers & Lyons, books	17 50
Rand, McNally & Co., books	172 00
Sibley & Ducker, books	33 33
Silver, Burdett & Co., books	884 73
Benjamin H. Sanborn & Co., books . .	1,616 46
University Publishing Co., books . . .	94 96
William Ware & Co., books	9 75
Werner & Co., books	4 40
Cook-Vivian Co., supplies	18 00
Adams, Cushing & Foster, supplies . .	2,856 94
Allen, Totman Co., supplies	3 41
Eimer & Amend, supplies . . \$164 74	
	48 85
	115 89
Joseph Breck & Sons, supplies	12 12
Gilman-square Fish Market, supplies . .	8 34
Cambridge Botanical Supply Co., supplies	11 56
L. E. Knott Apparatus Co., supplies . .	212 42
Mayhew Publishing Co., supplies . . .	1 00
J. L. Hammett Co., supplies	1,600 51
Dennison Mfg. Co., supplies	14 95
Kenney Bros. & Wolkins, supplies . . .	140 82
Bunkio Matsuki, supplies	2 70
The Morse Co., supplies	328 99
Neostyle Co., supplies	63 68
W. E. Plumer & Co., supplies	320 28
Amount carried forward	\$20,350 42

Amount brought forward	\$20,350 42
Palmer, Parker & Co., supplies	2 00
Celeste Weed Albright, supplies	5 00
Silver, Burdett & Co., supplies	51
Mary F. Carrick, supplies	3 50
George F. King & Co., supplies	111 59
The Fred Macy Co., supplies	2 90
A. J. Wilkinson & Co., supplies	1 45
Henry W. Stone, supplies	5 00
Whitney & Snow, supplies	62 50
L. R. Stuart, supplies	9 50
Wilson Jewelry Co., supplies	50
Milton Bradley Co., supplies	119 66
G. W. Earle, supplies	48 00
Holden Patent Book Cover Co., supplies	216 74
Eagle Pencil Co., supplies	15 98
G. R. Fisk & Co., supplies	74 64
Franklin Laboratory Supply Co., supplies,	260 95
N. H. Crowell, supplies	25 25
McKinley Publishing Co., supplies	9 98
M. L. Vinal, supplies	95 04
Thorpe & Martin Co., supplies	9 15
Mitchell Mfg. Co., supplies	5 40
F. S. Webster Co., supplies	4 18
P. P. Caproni & Brother, supplies	1 75
Mrs. E. T. Curtis, supplies	73 34
Davis Ice Cream Co., supplies	100 30
J. W. Howard, supplies	10 00
Barbour-Stockwell Co., supplies	1 90
John M. Woods & Co., lumber	380 37
Place Box Co., boxes	2 88
Henry F. Miller & Sons Co., piano tuning	7 00
E. S. Daniels, tuning	12 00
Smith Premier Typewriter Co., repairs . .	17 60
Wyckoff, Seamans & Benedict, repairs . .	2 15
Wagner Typewriter Co., supplies	9 33
Remington Typewriter Co., supplies	3 15
Somerville Journal Co., printing	843 73
Courier-Citizen Co., printing	23 00
Webcowit Press, printing	154 00
Harold Baldwin, printing	2 50
Wesley A. Maynard, printing	9 75
Clark Mfg. Co., ink	71 40
Suffolk Ink Co., ink	9 00
Chas. T. C. Whitcomb, disbursements . .	18 75
S. A. Johnson, disbursements	3 20
H. F. Hathaway, disbursements	3 14
A. L. Doe, disbursements	1 32
George M. Wadsworth, disbursements . .	9 07
Charles E. Davis, taking school census . .	120 84
Clara Z. Elliot, taking school census . .	39 84
Elizabeth S. Webster, taking school cen- sus	65 20
Wyman E. Pickett, taking school census,	46 50
Harvard University, examination papers,	8 40
Boston Bank Note Co., diplomas	131 92
Henry W. Stone, engrossing	77 30
W. A. Greenough & Co., directories . .	3 50
Amount carried forward	<hr/> \$23,703 97

Amount brought forward	\$23,703 97	
Wadsworth, Howland & Co., supplies	463 51	
Novello, Ewer & Co., music	30 00	
Oliver Ditson Co., music	1 25	
S. Henry Hadley, music	4 00	
First Methodist Church, use of church	150 00	
Charles D. Adams, services	25 00	
Merrill E. Gates, services	50 00	
Will S. Monroe, services	25 00	
Hadley's Orchestra, services	260 00	
James H. Chase, services	10 00	
C. E. Estabrook, services	3 20	
Howard Lowell & Son, carriage hire	13 00	
F. J. Barnard, bindery	611 58	
George A. LaBree, repairing	40 12	
New England Telephone & Telegraph Co., service	194 89	
I. M. Grundy, expressing	5 85	
Stilphen & Co., expressing	4 05	
Ernest S. Dow, expressing	20 00	
American Express Co., expressing	4 90	
A. G. Renner, expressing	1 50	
London's Express, expressing	50 88	
		<u>\$25,672 70</u>

School Teachers' Salaries.

CREDIT.

Appropriations, from Taxes, 1903	\$238,000 00
Transferred from Excess and Deficiency account, balance overdrawn	163 61
	<u>\$238,163 61</u>

DEBIT.

(Expenditures.)

Cash, paid salaries as per pay-rolls	<u>\$238,163 61</u>
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Sealer of Weights and Measures.

CREDIT.

Appropriations, from Taxes, 1903	\$1,200 00
Transferred to Excess and Deficiency account, balance unused	166 74
	<u>\$1,033 26</u>

Receipts:—

Cash, received of John H. Dusseault, fees	396 77
	<u>\$1,430 03</u>

DEBIT.

(Expenditures.)

Cash, paid John H. Dusseault, salary as sealer of weights and measures	\$1,000 00
disbursements	392 23
Somerville Journal Co., advertising, etc.,	9 25
W. A. Greenough & Co., directory	3 50
R. Woodman Mfg. & Supply Co., seals, etc.	17 55
A. J. Wilkinson & Co., tools	6 25
Underhill Hardware Co., hardware	1 25
	<u>\$1,430 03</u>

Sewer Assessments.

CREDIT.

Receipts:—

Cash, received of sundry persons	\$2,988 66
Balance to debit of account, 1904	4,839 77
	<hr/>
	\$7,828 43

DEBIT.

Balance from 1902	\$5,061 79
Sewers Construction account, assessments levied	\$2,806 64
Less abatements	40 00
	<hr/>
	2,766 64
	<hr/>
	\$7,828 43

Sewers, Construction.

CREDIT.

Balance from 1902	\$4,288 29
Appropriations from Funded Debt, 1903	25,000 00
Sewer Assessments account, assessments levied	\$2,806 64
Less abatements	40 00
	<hr/>
	2,766 64
	<hr/>
	\$32,054 93
Balance of account unused, carried to 1904	1,374 58
	<hr/>
	\$30,680 35

Receipts:—

Cash, received of Michael H. Dewire, connecting drain	\$2 50
Heirs Timothy Sullivan, connecting drain	2 50
Zenobia H. Willey, part cost of sewer in Munroe street	43 85
Stephens & Horsman, pipe and cement	10 52
	<hr/>
	\$59 37

Stock and labor billed other departments:—

Joseph F. Wilson Memorial account	30 00
Public Buildings Maintenance, Schoolhouses account	24 61
Sewers, Maintenance account	5 00
Sidewalks, Construction account	35 24
Water Maintenance account	28 25
	<hr/>
	182 47
	<hr/>
	\$30,862 82

DEBIT.

(Expenditures.)

Cash, paid laborers	\$2,170 60
New England Brick Co., bricks	243 70
Osgood & Witherly, castings	36 00
Sessions Iron Foundry, castings	53 33
Somerville Iron Foundry, castings	499 26
W. S. Howe, copper, etc.	37 65
Eastern Expanded Metal Co., meshes	652 80
Barbour-Stockwell Co., traps	45 00
C. L. Underhill, manhole steps, etc.	12 20
	<hr/>

Amount carried forward \$3,750 54

Amount brought forward	\$3,750 54
Waldo Brothers, pipe and cement	2,178 16
C. S. Philbrick, pipe	8 44
M. A. Simpson, sand	4 70
Herbert L. Henderson, iron beams	1,381 73
New England Telephone and Telegraph Co., rails	26 00
A. C. Libby & Sons, stationery	12 00
Somerville Journal Co., advertising	13 00
Webcowit Press, printing	44 75
Registry of Deeds, recording	6 85
James Tevlin, use of teams	475 14
T. F. Crimmings, use of teams	25 65
Boston & Maine Railroad, freight	378 51
Daniel A. Dorey & Co., constructing sewer:—	
Somerville avenue	644 95
Settlement of suit Winthrop-avenue storm drain	2,500 00
Bartholomew Burke, constructing sewer:—	
Court off Broadway	11 49
College avenue	72 52
Maurice Buttimer, constructing sewer:—	
Elmwood terrace	100 14
Patrick Burke, constructing sewer:—	
Watson street	24 00
Powder House boulevard	15 35
Ossipee road	258 17
Timothy F. Crimmings, constructing sewer:—	
Poplar street	147 56
Beacon street	132 80
Beacon street	122 27
Storm water drain Middlesex avenue and private street	14,219 45
labor and sand	81 00
Richard Falvey, constructing sewer:—	
Professors row	14 94
Columbia street	156 29
Lexington avenue	365 37
Charles A. Kelley, constructing sewer:—	
Fenwick street	44 79
Washington and Franklin streets	106 87
Boston avenue	42 77
Maple street (storm drain)	313 63
Powder House boulevard	128 60
Beacon street	1,554 82
laying drain	18 00
William J. McCarthy, constructing sewer:—	
Linwood street (south)	147 04
Linwood street (north)	175 34
Pearson avenue	47 67
Teele street and Packard avenue	787 96
City Engineer account, inspection and engineering	3 75
Sewers, Maintenance account, ce- ment, etc.	280 00
Water Maintenance account, iron pipe	39 81

\$30,862 82

Sewers, Maintenance.

CREDIT.

Water Works Income, amount appropriated	\$12,300 00
Transferred to Excess and Deficiency account, balance unused	9 72
	<hr/>
	\$12,290 28

Receipts:—

Cash, received of N. H. Reed & Son, old iron	\$11 50
C. White, old hose	11 70
M. Norton & Co., old hose	14 35
Boston Elevated Railway Co., labor	213 03
	<hr/>
	\$250 58

Stock and labor billed other departments:—

City Engineer account	252 19
Joseph F. Wilson Memorial account	20 00
Public Buildings Maintenance, Schoolhouses account	53 50
Public Grounds account	36 00
Sewers, Construction account	280 00
	<hr/>
	892 27
	<hr/>
	\$13,182 55

DEBIT.

(Expenditures.)

Cash, paid laborers	\$6,587 36
Charles E. Berry, pipe, labor, etc.	181 03
C. W. Stevens, lumber, labor, etc.	25 32
I. H. Brown Moulding Co., lumber and turning	5 43
J. J. Buckley & Co., burlap bags	20 00
Fulton O'Brien, bags	1 29
City of Cambridge, dredging and flushing sewer	1,585 60
Cornelius Callahan Co., repairing hose, etc.	120 68
Harold L. Bond & Co., couplings	11 88
Barbour-Stockwell Co., traps	12 50
Norton & Co., hose and covers	30 64
A. Goldstein, rubber goods	41 10
Belden & Snow, oil clothing	2 25
New England Telephone & Telegraph Co., tolls	19 38
A. C. Libby & Sons, books and stationery	11 50
M. L. Vinal, stationery	20
J. P. O'Neil, coal	5 25
Suburban Coal Co., coal	23 00
W. E. Plumer & Co., hardware	08
C. L. Underhill, hardware	3 25
Whitney & Snow, hardware	77 32
Geo. L. Reed, Agent, rent of water course	300 00
E. W. Danforth, car fares	13 00
Herman Gregg, services as witness, and expenses	45 00
James Tevlin, teaming	3,316 51
	<hr/>
Amount carried forward	\$12,439 57

Amount brought forward . . .	\$12,439 57
Waldo Bros., cement . . .	73 28
Berry & Ferguson, cement . . .	250 00
M. A. Simpson, sand . . .	2 70
Simpson Brothers Corporation, laying walk . . .	30 64
New England Brick Co., brick . . .	96 80
Highland Coal Co., pipe . . .	8 79
H. Wood, sharpening tools . . .	4 65
A. A. Smith, repairing . . .	3 60
F. Dooris, sharpening tools . . .	9 75
I. B. Walker, repairing tools . . .	5 92
F. W. Farrar, repairing . . .	3 00
Fellows & Co., ladder . . .	3 60
Maurice J. Goggin Mfg. Co., buckets . . .	81 03
P. Murray, barrel . . .	75
W. L. Snow Co., lanterns . . .	3 00
Howard Lowell & Son, carriage hire . . .	11 00
Somerville Iron Foundry, castings . . .	53 67
Osgood & Witherly, castings . . .	5 00
David W. Lewis, grate . . .	7 80
J. H. Brown, repairing drain . . .	50 03
Edson Mfg. Co., repairing pump . . .	16 97
A. C. Gordon, painting . . .	15 75
Glines & Co., expressing . . .	25

\$13,177 55

Sewers, Construction account, manhole cover	5 00
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\$13,182 55
Sidewalk Assessments.

CREDIT.

Sidewalks, Construction account, abatements . . .	\$244 22
Balance of account carried to 1904 . . .	4,508 32
Receipts:—	
Cash, received of sundry persons . . .	\$12,037 50
	200 37
	<hr/> 11,837 13
	<hr/> \$16,589 67

DEBIT.

Balance from 1902	\$6,294 02
Sidewalks, Construction account, assess- ments levied	10,295 65
	<hr/> \$16,589 67

Sidewalks, Construction.

CREDIT.

Appropriations, from Funded Debt, 1903 . . .	\$11,350 00
Transferred from Highways, Construction account, balance overdrawn	1,185 50
	<hr/> \$12,535 50
Sidewalk Assessments account, assessments levied	\$10,295 65
Less abatements	244 22
	<hr/> 10,051 43
Amount carried forward	<hr/> \$22,586 93

Amount brought forward		\$22,586 93
Receipts:—		
Cash, received of Emma Walsh, sidewalk	\$34 84	
Allen F. Carpenter, sidewalk	78 14	
John D. Taapken, bricks, etc.	183 10	
Henry B. Caldwell, bricks	1 00	
Charles S. Robbins, bricks	1 69	
W. J. Edwards, bricks	75 00	
V. H. Wooster, bricks	102 40	
Michael H. Dewire, edgestones	122 22	
Thomas Kilmartin, bricks	43 75	
Henry F. White, bricks	2 00	
Grace M. Grant, granolithic sidewalk	28 93	
New England Mutual Life Insurance Co., granolithic sidewalk	83 39	
Mary E. Cooper, bricks	2 00	
	<hr/>	\$758 46
Stock and labor billed other departments:—		
Highways, Maintenance account	5 00	
Public Buildings Maintenance, School- houses account	30 09	
	<hr/>	793 55
		<hr/>
		\$23,380 48

	DEBIT.	
Balance from 1902		\$1,525 09
Expenditures:—		
Cash, paid laborers	\$5,780 26	
S. & R. J. Lombard, edge- stones	9,638 18	
New England Brick Co., bricks	3,882 64	
William H. Casey, brick	402 90	
Simpson Bros. Corpora- tion, granolithic	269 35	
W. F. Mansfield, allowance on granolithic sidewalk	18 80	
Edward I. Morrison, al- lowance on granolithic sidewalk	10 10	
	<hr/>	\$20,002 23
Highways, Maintenance ac- count, use of city teams and materials	1,716 45	
Highways, Paved Gutters and Crossings account, pav- ing blocks	72 20	
Sewers, Construction account, edgestones	35 24	
Sidewalks, Maintenance ac- count, labor and bricks	29 27	
	<hr/>	21,855 39
		<hr/>
		\$23,380 48

Sidewalks, Maintenance.

	CREDIT.	
Appropriations, from Taxes, 1903		\$6,000 00
Transferred from Highways, Construction account, bal- ance overdrawn		1,185 35
		<hr/>
Amount carried forward		\$7,185 35

Amount brought forward		\$7,185 35
Receipts:—		
Stock and labor billed other departments:—		
Highways, Maintenance account	\$8 75	
Sidewalks, Construction account	29 27	
	<hr/>	38 02
		<hr/>
		\$7,223 37

DEBIT.

(Expenditures.)

Cash, paid laborers	\$5,080 67	
T. Allen, concreting	329 56	
A. C. Libby & Sons, stationery	13 00	
New England Brick Co., brick	779 67	
William H. Casey, brick	141 00	
	<hr/>	\$6,343 90
Highways, Maintenance account, use of city teams and materials	837 73	
Highways, Paved Gutters and Crossings account, paving blocks	41 74	
	<hr/>	<hr/>
		\$7,223 37

Soldiers' Burials.

CREDIT.

Receipts:—

Commonwealth of Massachusetts, soldiers' burials	\$280 00
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DEBIT.

(Expenditures.)

Cash, paid M. J. Shea, services as undertaker,	\$35 00	
E. H. Marsh & Son, services as under- takers	35 00	
W. A. Flaherty & Son, services as under- takers	35 00	
F. M. Wilson, services as undertaker	70 00	
John Bryant's Sons, services as under- takers	35 00	
John E. Kaula, services as undertaker	70 00	
	<hr/>	\$280 00
		<hr/>

Soldiers' Relief.

CREDIT.

Appropriations, from Taxes, 1903	\$16,000 00
Transferred from Excess and Deficiency account, balance overdrawn	3,276 81
	<hr/>
	\$19,276 81

Receipts:—

Cash, received of Hannah Kenney, board	\$131 50	
Maria Sliney, board	60 00	
Town of Athol, board	36 00	
	<hr/>	\$227 50
Military Aid account, board of J. W. Roberts	71 96	
	<hr/>	299 46
		<hr/>
		\$19,576 27

DEBIT.
(Expenditures.)

Cash, paid sundry persons as per pay-rolls	\$19,080 00 8 00	
	<hr/>	\$19,072 00
Worcester Insane Hospital, board .		477 27
Catherine Byron, nursing soldier's widow .		12 50
A. C. Libby & Sons, record book .		12 50
L. H. Brown, carriage hire		2 00
	<hr/>	<hr/>
		\$19,576 27

Somerville Hospital.

CREDIT.

Appropriations, from Taxes, 1903	\$5,000 00
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DEBIT.
(Expenditures.)

Cash, paid for support of sick poor	<hr/> <hr/> \$5,000 00
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State Aid.

CREDIT.
(Receipts.)

Commonwealth of Massachusetts, state aid paid in 1903 .	\$13,875 50
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DEBIT.
(Expenditures.)

Cash, paid monthly pay-rolls	\$13,905 50 30 00	
	<hr/>	<hr/>
		\$13,875 50

Street Lights.

CREDIT.

Appropriations, from Taxes, 1903	\$63,900 00
Transferred from Excess and Deficiency account, balance overdrawn	39 51
	<hr/>
	\$63,939 51

DEBIT.
(Expenditures.)

Cash, paid Somerville Electric Light Co., lighting	\$63,736 21	
moving lamps	91 00	
Welsbach Street Lighting Company of America .	\$132 00	
(cash)	54 00	
	<hr/>	78 00
Somerville Journal Co., printing		6 00
L. H. Brown, carriage hire		14 00
Jairus Mann, disbursements		14 30
	<hr/>	<hr/>
		\$63,939 51

Sundry Persons.

CREDIT.

Balance from 1902	\$474 21
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DEBIT.

Balance to credit of account, 1904	<hr/> <hr/> \$474 21
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Support of Poor, City Home.

CREDIT.

Appropriations, from Taxes, 1903	\$4,500 00
Transferred from Excess and Deficiency account, balance overdrawn	29 24

 \$4,529 24

Receipts:—

Cash, received of J. Foster Colquhoun, pro- duce	\$2,364 46
John Wolfe, Jr., & Co., produce	150 70
Town of Milford, swine	17 00
North Packing and Provision Co., swine, Commonwealth of Massachusetts, board, Fannie Callahan, aid	25 00
James B. Cates, aid	15 17
Mary F. Solis, John L. Clarry, et al., aid, James B. Cates, aid	121 77
Mary F. Solis, John L. Clarry, et al., aid, James B. Cates, aid	33 00
Mary F. Solis, John L. Clarry, et al., aid, James B. Cates, aid	94 50
	<hr/>
	\$2,821 60

 Stock and labor billed other depart-
ments:—

Support of Poor, Miscellaneous account	193 75
--	--------

 3,015 35

 \$7,544 59

DEBIT.

(Expenditures.)

Cash, paid Mr. and Mrs. J. Foster Colqu- houn, services as warden and matron, J. Foster Colquhoun, warden	\$349 98
disbursements	350 02
Mrs. Catherine Colquhoun, matron	577 46
	<hr/>
	\$145 83
	20 83
	<hr/>
	125 00
Charles C. Folsom, disbursements	15 00
Sundry persons, services	1,251 62
F. J. Hopkins, groceries	96 00
Medford-street Market, groceries	62 80
J. S. Newcomb & Co., groceries	385 89
John D. Taapken, groceries	102 46
E. S. Conant & Co., groceries	22 32
Ar-Showe & Co., groceries	60 10
Henry F. Sander Co., groceries	208 42
National Biscuit Co., groceries	26 25
Excelsior Creamery, groceries	14 39
C. H. Butterfield, groceries	16 80
Russell & Co., groceries	76 80
Martin L. Hall & Co., groceries	65 00
Mrs. Annie Kelley, groceries	22 60
James Bartley, groceries	14 15
Sperber & Co., groceries	15 08
J. W. Roberts & Co., groceries	223 66
John Wolfe, Jr., & Co., groceries	16 60
Gulliver & Allen, groceries	9 00
Boston Dairy Co., groceries	1 44
F. Putnam & Co., groceries	6 81
Clark Brothers Co., groceries	29 60
Doull & Flower, groceries	18 04

 Amount carried forward \$4,163 29

Amount brought forward	\$4,163 29	
D. J. Bennett, harness work	16 35	
Joseph Palmer, wagon seat	1 35	
J. B. Rufer, horseshoeing and clipping . .	10 95	
I. L. Roberts, horseshoeing	29 00	
I. B. Walker, wagon repairs	112 58	
E. B. West & Co., hay and grain	68 50	
J. S. Bradeen Co., hay and grain	463 17	
Page & Baker, furniture	37 00	
C. W. H. Moulton, furniture	4 50	
Reid & Hughes, kitchen utensils	9 32	
Jordan, Marsh & Co., kitchen utensils . .	21 13	
dry goods	55 30	
Joseph Breck & Sons, farm supplies . . .	77 35	
W. W. Rawson & Co., farm supplies . . .	21 35	
Lowell Fertilizer Co., farm supplies . . .	29 10	
Schlegel & Fottler Co., farm supplies . .	93 45	
George H. Bean, farm supplies	4 20	
H. S. Pond, swill	143 50	
Henry A. Angier, pigeons	17 50	
Joseph J. Pincus, hose	27 00	
George H. Thayer, boots and shoes . . .	33 51	
Massachusetts State Prison, boots and shoes	35 55	
clothing	57 85	
Brown, Durell & Co., clothing	18 25	
Parke Snow, clothing	53 10	
Alonzo Keene, clothing	1 50	
C. J. Bailey & Co., rubber goods	2 00	
Reuben Ring & Co., medicine	23 00	
Percy A. Hall, medicine	27 13	
C. S. Lombard, medicine	92	
Somerville Journal Co., printing	5 50	
Thomas Groom & Co., stationery	8 75	
W. A. Greenough & Co., directory	3 50	
Morris-Ireland Safe Co., safe	25 00	
Charles W. Badger, paint	1 68	
E. D. Sawyer Lumber Co., lumber	4 18	
Robert Macdonald, lumber	6 72	
J. C. H. Snow, carpenter- ing	\$1,489 97	
	550 00	
	<hr/>	939 97
H. P. Tibbetts, carpentering	13 80	
Highland Coal Co., lime	5 44	
David W. Lewis, tile	18 64	
R. Falvey, laying tile, and drain pipe . .	65 56	
Simpson Brothers Corporation, walls and steps	147 15	
Ellsworth S. Ernst, building wire fence . .	55 00	
C. W. Lerner & Co., disinfectant	14 00	
Magee Furnace Co., furnace work	3 75	
Herbert Stratton, wood	100 00	
W. E. Plumer & Co., hardware	65 53	
E. S. Sparrow & Co., hardware	11 55	
Whitney & Snow, hardware	250 08	
Boston & Maine Railroad, freight	\$12 50	
	3 80	
	<hr/>	8 70
Amount carried forward	\$7,413 20	

Amount brought forward	\$7,413 20	
Frank O. Downer, special officer	20 00	
New England Telephone & Telegraph Co., service	49 96	
Mrs. Annie Kelley, papers	94	
Electric Gas Lighting Co., supplies	2 21	
Cambridge Ice Co., ice	15 15	
H. Wood, sharpening mower	1 25	
C. F. Merrill, sharpening mower	1 25	
	<hr/>	
	\$7,503 96	
Water Maintenance account, labor, etc.	40 63	
	<hr/>	
		\$7,544 59

Support of Poor, Miscellaneous.

CREDIT.

Appropriations, from Taxes, 1903	\$21,630 00
Transferred from Excess and Deficiency account, balance overdrawn	1,491 11

 \$23,121 11

Receipts:—

Commonwealth of Massachusetts, support of state paupers,	1,030 69
Commonwealth of Massachusetts, temporary support of state paupers	186 12

Cash, received for support of paupers:—

Commonwealth of Massachusetts	749 24
City of Boston	1,017 08
City of Cambridge	371 74
City of Chelsea	53 20
City of Everett	15 00
City of Fall River	151 37
City of Gloucester	31 80
City of Haverhill	10 00
City of Lawrence	17 00
City of Lowell	85 07
City of Lynn	44 70
City of Malden	166 40
City of Marlboro	18 00
City of Medford	171 00
City of Newton	42 00
City of Springfield	36 20
City of Woburn	5 20
City of Worcester	36 00
Town of Andover	23 00
Town of Belmont	15 00
Town of Canton	8 50
Town of Concord	2 00
Town of Framingham	27 80
Town of Harwich	47 00
Town of Hingham	3 50
Town of Medfield	60
Town of Milford	29 29
Town of Revere	10 00
Town of Rockport	42 80
Town of Saugus	35 00
Town of Wakefield	3 00
Charles I. Davis, aid furnished	146 00

 Amounts carried forward \$3,414 49 \$24,337 92

Amounts brought forward . . .	\$3,414 49	\$24,337 92
Samuel Rines, aid furnished . . .	126 75	
Bartholomew O'Connell, aid furnished . . .	219 14	
Augustus W. Hopkins, aid furnished . . .	159 11	
Estate Martin Farrell, aid furnished . . .	170 76	
Mary Brady, aid furnished . . .	146 00	
John F. Nicol, aid furnished . . .	105 40	
Frederick A. P. Fiske, Gdn., aid furnished . . .	338 91	
Harriet Jordan, aid furnished . . .	4 50	
Lewis H. Shepherd, aid furnished . . .	1,111 97	
James F. Luce, aid furnished . . .	75 67	
Mrs. R. McG. Taylor, aid furnished . . .	41 79	
Mrs. Jas. A. Riley, aid furnished . . .	3 87	
Frank R. Temple, aid furnished . . .	1 75	
Mrs. Mary E. Taylor, aid furnished . . .	212 17	
		6,132 28
		<u>\$30,470 20</u>

DEBIT.

(Expenditures.)

Cash, paid for support of paupers:—	
Commonwealth of Massachusetts . . .	\$852 68
Worcester Insane Hospital . . .	6,358 31
Worcester Insane Asylum . . .	508 38
Medfield Insane Asylum . . .	3,433 70
Taunton Insane Hospital . . .	338 92
Westboro Insane Hospital . . .	2,159 18
Danvers Insane Hospital . . .	1,041 40
Massachusetts Hospital for Epileptics . . .	609 61
Massachusetts Hospital for Dipsomaniacs and Inebriates . . .	283 29
Massachusetts School for Feeble-Minded . . .	818 94
Boston Insane Hospital . . .	169 46
Boston Observation Hospital . . .	73 57
Massachusetts General Hospital . . .	4 00
Somerville Hospital, support and treat- ment of sick poor . . .	2,190 87
nursing . . .	6 25
City of Boston . . .	1,286 22
City of Cambridge . . .	55 95
City of Everett . . .	24 75
City of Malden . . .	20 70
City of Medford . . .	88 90
City of Salem . . .	5 71
City of Worcester . . .	24 00
Town of Attleboro . . .	127 00
Town of Winchester . . .	3 00
Mrs. Clara Roberts . . .	169 46
Ellen Mahoney, cash allowance . . .	84 00
Elizabeth Price, board . . .	7 57
Maria S. Higgins, board . . .	26 16
Lottie Reading, board . . .	39 02
Bridget Condon, board . . .	190 74
Elizabeth Ringer, board . . .	14 00
Susie J. Palmer, board . . .	117 89
Kurn-Hattin Homes, board . . .	100 00
Children's Mission, board . . .	204 00
Charles C. Folsom, salary as agent . . .	1,600 00
disbursements . . .	279 47
Amount carried forward . . .	<u>\$23,317 10</u>

Amount brought forward	\$23,317 10
Alvah B. Dearborn, city physician	1,500 00
Cora F. Lewis, secretary	\$658 33
	8 33
	<hr/>
	650 00
Laura E. Peavey, clerical services	48 00
Wellington-Wild Coal Co., fuel	380 70
Cambridge Gas Light Co., fuel	25 00
Frank A. Teele, fuel	9 40
Fresh Pond Ice Co., ice	2 70
New England Telephone & Telegraph Co., service	115 71
Thomas Groom & Co., stationery	25 45
J. L. Fairbanks & Co., stationery	3 00
Carter's Ink Co., ink	2 25
F. S. Blanchard & Co., year book	3 00
W. A. Greenough & Co., directory	3 50
The Fraser Tablet Co., medicine	7 54
Bell & Co., medicine	2 50
F. W. Robie, medicine	4 95
Bristol, Myers Co., medicine	4 00
E. S. Merriam, medicine	3 52
Surgeons' & Physicians' Supply Co., medicine	15 73
Milton H. Plummer, medicine	58 14
G. F. Harvey Co., medicine	12 00
L. P. Cook, medicine	1 40
S. F. Phipps, medicine	85
N. R. Barrows, groceries	71 00
Sawyer & Read, groceries	40 00
James Davis, groceries	199 75
James H. Maguire, groceries	138 50
Edward Coliten, groceries	98 00
Medford-street Market, groceries	193 50
C. L. Stevens, groceries	45 00
Charles F. Giles, groceries	618 00
A. E. Robie, groceries	223 00
A. F. Carpenter, groceries	228 06
R. M. Sturtevant & Co., groceries	542 75
F. L. Card, groceries	112 50
Chas. S. Butters, groceries	169 00
W. P. Blanchard, groceries	135 00
James Bartley, groceries	316 70
F. A. Barlow, groceries	98 00
D. E. Watson, groceries	116 00
D. A. McKay, groceries	64 00
F. E. Cheney Co., groceries	46 00
Edward Coliten & Son, groceries	27 00
M. L. King, groceries	10 00
Copithorne Brothers, groceries	20 53
Somerville Journal Co., printing	14 25
John S. McGowan, burial	5 00
W. A. Flaherty & Son, burials	50 00
David Fudge & Son, burials	5 00
James P. Crogan, burials	20 00
Howard Lowell & Son, carriage hire	15 00
Wm. Kirkland, carriage hire	1 00
I. B. Walker, carriage repairs	14 00
Allan Coughlan, carriage repairs	2 50
	<hr/>
Amount carried forward	\$29,835 48

Amount brought forward . . .	\$29,835 48
Charles W. Dailey, use of ambulance . .	10 00
Ira L. Roberts, horseshoeing . . .	29 00
Jackson Caldwell & Co., board of horse,	66 00
A. P. Rockwood, board of horse . . .	198 75
J. H. Brooks, dry goods	15 50
Belden & Snow, dry goods	2 00
F. W. Gilbert, boots and shoes . . .	70 60
Daniel Goodenow, M. D., medical attend-	
ance, etc.	28 20
Emma B. Wilcomb, nursing	20 92

\$30,276 45

Support of Poor, City Home account, fuel 193 75

\$30,470 20

Taxes.

CREDIT.

Receipts:—

Cash, received for taxes of 1894 . . .	\$4 00
“ “ “ “ 1895 . . .	12 00
“ “ “ “ 1896 . . .	4 00
“ “ “ “ 1897 . . .	38 00
“ “ “ “ 1898 . . .	126 95
“ “ “ “ 1899 . . .	227 46
“ “ “ “ 1900 . . .	392 00
“ “ “ “ 1901 . . .	1,074 98
“ “ “ “ 1902 . . .	278,141 96
“ “ “ “ 1903 . . .	729,457 56

\$1,009,478 91

Overlay and Abatement:—

Abatements on taxes of 1897 . . .	\$6,447 91
“ “ “ “ 1898 . . .	20 00
“ “ “ “ 1899 . . .	163 44
“ “ “ “ 1900 . . .	100 40
“ “ “ “ 1901 . . .	399 96
“ “ “ “ 1902 . . .	1,324 80
“ “ “ “ 1903 . . .	7,396 28

15,852 79

Balance to debit of account, 1904:—

Being uncollected taxes of 1896 . . .	\$36 78
“ “ “ “ 1897 . . .	159 70
“ “ “ “ 1898 . . .	5,216 88
“ “ “ “ 1899 . . .	2,237 88
“ “ “ “ 1900 . . .	2,880 41
“ “ “ “ 1901 . . .	5,194 81
“ “ “ “ 1902 . . .	7,658 94
“ “ “ “ 1903 . . .	302,560 88

325,946 28

\$1,351,277 98

DEBIT.

Balance from 1902	\$311,863 26
Tax Levy, as per assessors' warrant of	
August 10, 1903	1,038,849 84
Supplementary warrants, amount credited to	
Overlay and Abatement account . . .	564 88

\$1,351,277 98

Temporary Loans.

CREDIT.

Balance from 1902		\$340,000 00
Cash, borrowed by authority of the Board of Aldermen on notes as follows:—		
City Note No. 541, nine months, 4 per cent.	\$50,000 00	
City Note No. 542, nine months, 4 per cent.	50,000 00	
City Note No. 543, nine months (dis- counted), 4.6 per cent.	50,000 00	
City Note No. 544, nine months, 4¼ per cent.	15,000 00	
City Note No. 545, nine months, 4.6 per cent.	85,000 00	
City Notes Nos. 546-549, six months (dis- counted), 4.6 per cent.	100,000 00	
City Note No. 550, six months, 4½ per cent.	25,000 00	
City Notes Nos. 551-553, seven months, (discounted), 4.74 per cent.	50,000 00	
City Note No. 554, seven months, 4½ per cent.	15,000 00	
City Note No. 555, three months, 4⅝ per cent.	100,000 00	
City Notes Nos. 556, 557, six months, (discounted), 4⅝ per cent.	25,000 00	
City Note No. 558, six months, 4⅝ per cent.	25,000 00	
City Note No. 562, six months, 4.9 per cent.	100,000 00	
City Note No. 563, six months, 4½ per cent.	10,000 00	
City Note No. 564, six months, 4¾ per cent.	15,000 00	
City Note No. 567, six months (dis- counted), 4.56 per cent.	100,000 00	
		815,000 00
		<u>\$1,155,000 00</u>

DEBIT.

(Expenditures.)

Cash, paid as follows:—

City Note No. 527, seven months, 3¾ per cent.	\$50,000 00
City Note No. 528, six months, 3½ per cent.	25,000 00
City Note No. 529, six months (dis- counted), 4¾ per cent.	100,000 00
City Notes Nos. 531-538, six months (dis- counted), 4.96 per cent.	100,000 00
City Note No. 539, six months, 4¼ per cent.	15,000 00
City Note No. 540, seven months, 5 per cent.	50,000 00
City Note No. 541, nine months, (dis- counted), 4 per cent.	50,000 00
City Note No. 542, nine months, 4 per cent.	50,000 00

Amount carried forward \$440,000 00

Amount brought forward	\$440,000 00
City Note No. 543, nine months, 4.60 per cent.	50,000 00
City Note No. 544, nine months, 4¼ per cent.	15,000 00
City Notes Nos. 547-549, six months, 4.6 per cent.	65,000 00
City Note No. 550, six months, 4½ per cent.	25,000 00
City Note No. 555, three months, 4⅝ per cent.	100,000 00
City Note No. 556, six months, 4⅝ per cent.	10,000 00
City Note No. 557, six months, 4⅝ per cent.	15,000 00
City Note No. 558, six months, 4⅝ per cent.	25,000 00
City Notes Nos. 559-561, six months, 4.60 per cent.	35,000 00

	\$780,000 00	
Balance to credit of account, 1904	375,000 00	
		<u>\$1,155,000 00</u>

Water Loan Interest.

CREDIT.

Water Works Income, amount appropriated	\$5,610 00
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DEBIT.

Coupons maturing April 1, 1903:—	
\$80,000, six months, 4 per cent.	\$1,600 00
Coupons maturing July 1, 1903:—	
\$56,000, six months, 4 per cent.	1,120 00
\$10,000, six months, 5½ per cent.	275 00
Coupons maturing October 1, 1903:—	
\$80,000, six months, 4 per cent.	1,600 00
Coupons maturing January 1, 1904:—	
\$37,000, six months, 4 per cent.	740 00
\$10,000, six months, 5½ per cent.	275 00
	<u>\$5,610 00</u>

Water Maintenance.

CREDIT.

Water Works Income, amount appropriated	\$31,000 00
Transferred from Water Works Extension account	8,400 00

\$39,400 00

Water Works Income, balance of appropriation transferred	323 69
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\$39,076 31

Receipts:—

Cash, received of sundry persons, costs	\$302 00
Harleigh J. Bushway, water service	83 48
The Sylvester Co., pipe	11 00
The Locks & Canals Co., castings	10 30
George R. Boyer, repairs	2 00
Dudley F. Hunt, et al., deficiency in revenue	17 00

Amounts carried forward	\$425 78	\$39,076 31
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Amounts brought forward	\$425 78	\$39,076 31
A. A. Libby & Co., use of water	3 00	
W. P. Rice, replacing service	5 35	
David P. Horton, fittings	3 00	
Max Rubens, old iron	56 77	
John McKenna, old iron	274 42	
Youlden, Smith & Hopkins, repairs	14 95	
James W. French, extending service pipe	6 56	
John Hallahan, repairs	1 00	
Ellis & Buswell, labor	14 95	
Louise S. O'Brien, extending service	7 50	
C. R. Elder, connecting service	12 91	
Francis Tufts, relaying service pipe	9 50	
H. M. Peggs, labor	2 00	
James Ferris, setting stopcock	2 00	
Charles Brock, setting stopcock	2 00	
S. Clarke, setting stopcock	2 00	
Lewis H. Fisher, fittings	4 00	
Isaac Sexton, labor	2 00	
Charles M. Berry, pipe and fittings	3 87	
S. M. Cavanagh, fittings	2 75	
Thomas Allen, fittings	2 00	
North Packing & Provision Co., casting, Middlesex Paper Co., fire and water service	26 48	
Frank R. Rogers, labor	184 72	
Kellsey & Stack, fittings	4 00	
George Donovan, labor	1 50	
Alphonso Taylor, fittings	2 00	
John Craig, labor	2 00	
Thomas E. Chase, labor	1 00	
John Silk, old pipe	2 00	
Lord Brothers, damage to meters	11 00	
Middlesex Bleach, Dye and Print Works, pipe, etc. . . .	11 50	
Town of Winchester, pipe and castings	103 67	
Town of Arlington, pipe	104 72	
David D. Lord, meter, etc. . . .	121 76	
John P. Squire & Co., pipe	11 00	
H. L. Mercer, repairs	28 95	
Metropolitan Water & Sewerage Commission, castings	1 50	
James F. Davlin, meter	25 08	
Boston & Maine railroad, raising pipe	9 00	
Boston Elevated Railway Co., labor, etc. . . .	231 25	
American Tube Works, pipe, etc. . . .	43 20	
Griffin Wheel Co., pipe and fittings	125 75	
Commonwealth of Massachusetts, fittings	21 48	
	98	
	<hr/>	
	\$1,932 85	
Stock and labor billed other departments:—		
Highways, Maintenance account	12 51	
Joseph F. Wilson Memorial account	77 97	
Public Grounds account	40 69	
Sewers, Construction account	39 81	
Support of Poor, City Home account	40 63	
Water Works Extension account	10,230 53	
	<hr/>	
		12,374 99
		<hr/>
		\$51,451 30

DEBIT.
(Expenditures.)

Cash, paid laborers	\$19,127 35
Frank E. Merrill, salary as water commissioner	2,300 00
disbursements	136 82
Edward M. Shedd, inspector	1,200 00
Florence E. Barton, assistant	650 00
V. Florence Walker, assistant	400 00
Lillian E. Leavitt, assistant	455 33
Laura E. Peavey, assistant	120 00
Bessie L. L. Crosby, clerical services	129 33
Mathilde L. Haas, clerical services	5 33
Thomas McNeil, disbursements	7 40
Nathan Tufts & Sons, hay and grain	231 73
Hobart S. Palmer, hay and grain	451 76
William F. Emerson, hay and grain	8 00
F. O'Brien, hay and grain	250 61
Edward O'Brien, horseshoeing	121 26
John B. Rufer, horseshoeing	25 40
I. B. Walker, horseshoeing	38
William Buckley, horseshoeing	9 00
George W. Ladd, horseshoeing	4 50
Elias Lathrop, hoof ointment	4 00
William H. Hitchings, veterinary services	8 00
C. B. Fagan, horse dentistry	12 00
William Buckley, horse	250 00
C. L. Underhill, wagon repairs	99 85
Hale & Mayhew Co., wagon repairs	119 45
D. J. Bennett, harness work	74 35
Spalding Harness Co., harness work	32 90
H. O. Austin, harness work	3 00
H. Wood, sharpening saws	3 80
F. Dooris, repairing tools	113 37
C. F. Merrill, repairing tools	6 10
A. J. Wilkinson & Co., tools	23 55
Chandler & Farquhar, tools	61 03
Walworth Mfg. Co., tools	78 06
Boston & Lockport Block Co., tools	6 14
F. F. Goodnow & Co., tools	3 00
W. L. Snow Co., tools	20 75
Ames Plow Co., tools	10 76
F. W. Gilbert, rubber boots	3 75
Boston Woven Hose & Rubber Co., hose	15 90
Timothy F. Crimmings, gravel	55 50
Henry A. Wheeler & Co., flag	5 06
D. P. Bucknam, boiler repairs	49 00
Edward Kendall & Sons, boiler repairs	10 70
A. W. Chesterton & Co., packing	7 80
Harold L. Bond & Co., packing	8 26
Boston & Maine Railroad, labor and freight	22 39
Sewall & Day Cordage Co., packing	21 40
F. E. Fitts Mfg. & Supply Co., lead seals	1 75
New England Oil Co., oil	60 91
John P. Wahlstrom, paint and oil	13 50
Globe Gas Light Co., gasolene	11 93
Chapman & Soden, pitch	9 58
M. A. Simpson, sand	2 00
Amount carried forward	<u>\$26,863 74</u>

Amount brought forward	\$26,863 74
W. F. Flemming, upholstering	24 61
Underhill Hardware Co., hardware	95 06
William S. Howe, hardware	20 36
W. E. Plumer & Co., hardware	101 56
E. S. Sparrow & Co., hardware	3 50
Boston Bolt Co., bolts	28 06
Walker & Pratt Mfg. Co., grate	65
Chapman Valve Mfg. Co., valves	71 94
Darling Pump & Mfg. Co., valves	6 90
Coffin Valve Co., hydrant caps	75 00
Jenkins Brothers, valve wheels	3 14
Crosby Steam Gage & Valve Co., charts	4 00
Hersey Mfg. Co., meters	994 14
National Meter Co., meters	621 50
Neptune Meter Co., meters	429 45
Thomson Meter Co., meters	1,836 30
Union Water Meter Co., meters	1,062 10
L. Ryan, saw dust	3 30
W. S. Burbank, saw dust	3 50
Lexington Engineering & Saw Mill Works, box tops	7 25
I. H. Brown Moulding Co., lumber	5 16
S. W. Fuller, lumber	349 75
Eastern Salt Co., salt	19 55
Thomas Hollis Co., medicine	2 00
Winchester Tar Disinfectant, disinfectant	3 00
Charles Booth, wood	48 00
Wellington-Wild Coal Co., fuel	196 93
John McCarthy & Sons, charcoal	1 20
Derby Desk Co., desk, etc.	50 64
Electric Gas Lighting Co., supplies	8 28
Thomas Groom & Co., stationery	263 88
A. J. Lloyd & Co., charts	4 50
Smith Premier Typewriter Co., supplies	6 13
W. A. Greenough & Co., directory	3 50
Frost & Adams Co., slide rule	3 50
Wm. G. Johnston & Co., office supplies	6 00
H. A. Winship, card cases	9 75
Somerville Journal Co., printing	294 50
Somerville Post-office, postage	10 00
M. L. Vinal, stationery	1 20
"Fire & Water Engineering," subscrip- tion	3 00
Engineering News Publishing Co., sub- scription	5 00
Municipal Engineering Co., subscription,	2 00
Library Bureau, card cabinet	95 00
Boston Elevated Railway Co., car tickets	75 00
F. S. Blanchard & Co., year book	3 00
New England Telephone & Telegraph Co., service	217 77
Winter Hill Ice Co., ice	28 73
Fresh Pond Ice Co., ice	49 00
Cambridge Ice Co., ice	37 30
Braman, Dow & Co., fittings	964 53
Lead Lined Iron Pipe Co., fittings	964 11
Peck Brothers & Co., fittings	10 18
Sumner & Goodwin Co., fittings	10 80
A. P. Smith Mfg. Co., fittings	110 25
Amount carried forward	\$36,119. 20

Amount brought forward . . .	\$36,119 20
Builders' Iron Foundry, castings . . .	17 10
Osgood & Witherley, castings . . .	1,046 46
Scrannage Brothers, castings . . .	56 84
Davis & Farnum Mfg. Co., castings . . .	182 43
Frederick W. Gow, swivel joints . . .	55 80
National Coal Tar Co., coating . . .	2 50
Waldo Brothers, cement . . .	63 71
Chadwick-Boston Lead Co., pipe . . .	351 09
Warren Foundry & Machine Co., pipe . . .	10,987 17
Richards & Co., pig lead . . .	743 10
Charles E. Fuller, testing bars . . .	21 00
Oscar E. Bates, inspecting pipes . . .	189 00
Rensselaer Mfg. Co., water gates . . .	505 10
R. D. Wood & Co., hydrants . . .	295 00
Norwood Engineering Co., hydrants . . .	741 00
American Express Co., expressing . . .	11 55
Brown's Express, expressing . . .	50
Gilman Express Co., expressing . . .	2 75
Glines & Co., expressing . . .	75
American Stave & Cooperage Co., tank . . .	14 50
George F. McKenna, teaming . . .	4 50
P. J. McAuliffe, barge for M. W. W. trip . . .	12 00

	\$51,423 05	
Sewers, Construction account, bricks . . .	28 25	
		<u>\$51,451 30</u>

Water Service Assessments.

CREDIT.

Receipts:—

Cash, received of sundry persons, cost of services laid	\$2,527 28
Transferred to Water Works Extension account	<u>\$2,527 28</u>

Water Works, Abatements on Water Charges.

CREDIT.

Water Works Income, amount appropriated	\$1,000 00
Water Works Income, balance of account transferred	137 84
	<u>\$1,137 84</u>

DEBIT.

Cash, paid sundry persons, money refunded	\$859 25
Metered Water Charges, water charges abated	278 59
	<u>\$1,137 84</u>

Water Works Extension.

CREDIT.

Water Works Income, amount appropriated	\$20,000 00
Less balance of account returned	70 00
	<u>\$19,930 00</u>
Transferred to Water Maintenance account	8,400 00
	<u>\$11,530 00</u>
Amount carried forward	\$11,530 00

Amount brought forward	\$11,530 00
Receipts:—	
Water Service Assessments, amount collected for services laid	2,527 28
Cash, received of American Tube Works, laying fire pipe line	109 93
	<hr/>
	\$14,167 21
DEBIT.	
(Expenditures.)	
Cash, paid laborers	\$3,936 68
Water Maintenance account, stock	10,230 53
	<hr/>
	\$14,167 21

Water Works Income.

CREDIT.	
Metered Water Charges, water bills uncollected, 1903	\$10 46
Metered Water Charges, last quarter 1903 uncollected	15,635 80
Receipts:—	
Commonwealth of Massachusetts, proportion of water receipts, 1903	1,279 93
Cash, received of sundry water takers	208,689 17
	<hr/>
	\$225,615 36
Water Maintenance, amount appropriated	\$31,000 00
	323 69
	<hr/>
	\$30,676 31
Water Loan Interest, amount appropriated,	5,610,00
Reduction of Funded Debt, Water Loan Bonds, amount appropriated	23,000 00
Reduction of Funded Debt, Sewer Loan Bonds, amount appropriated	10,000 00
Water Works Extension, amount appropriated	\$20,000 00
	70 00
	<hr/>
	19,930 00
Water Works, Abatements on Water Charges, amount appropriated	\$1,000 00
balance transferred	137 84
	<hr/>
	1,137 84
Interest (Sewer) account, amount appropriated	7,120 00
Sewers, Maintenance account, amount appropriated	12,300 00
Fire Department, amount appropriated	31,000 00
Commonwealth of Massachusetts, (Metropolitan Water Assessment), amount appropriated	77,288 43
Reduction of Funded Debt	7,552 78
	<hr/>
	\$225,615 36

Table D.—Balances December 31, 1903.

Cash	\$61,714 58
City Treasurer	228 90
Commonwealth of Massachusetts	14,943 46
	<hr/>
Amount carried forward	\$76,886 94

Amount brought forward		\$76,886 94
Election Expenses, City Clerk		18 37
Election Expenses, Pay of Election Officers		8 00
Highway Betterment Assessments		5,019 57
Highways, Removing Brown-tail Moths		595 71
Military Aid		287 96
Overlay and Abatement		1,934 13
Metered Water Charges		15,538 44
Police		2,690 52
Public Buildings Maintenance:—		
City Hall		826 49
City Hall Annex		18 40
Health Department		207 21
Public Library		857 13
Schoolhouses		2,349 48
Support of Poor		292 74
Water Department		114 95
Public Library, Isaac Pitman Fund, Investment		5,000 00
Public Property		3,715,079 21
Real Estate Liens		2,140 00
School Contingent		1,556 29
School Teachers' Salaries		163 61
Sewer Assessments		4,839 77
Sidewalk Assessments		4,508 32
Soldiers' Relief		3,276 81
Street Lights		39 51
Support of Poor, City Home		29 24
Support of Poor, Miscellaneous		1,491 11
Taxes		325,946 28
Assessors	\$2 17	
City Auditor	18 40	
City Clerk	337 64	
City Engineer	157 90	
City Messenger	52 60	
City Solicitor	47 10	
Clerk of Committees and Departments	82 22	
Contingent Fund	129 58	
Coupons Unpaid	26,385 00	
Election Expenses, Commissioner of Public		
Buildings	21 05	
Election Expenses, Registrars of Voters	31 74	
Electrical Department	108 34	
Executive Department	101 27	
Fire Department	152 83	
Funded Debt	1,505,500 00	
Highways Construction	234 48	
Highways, Thorndike Street Subway	1,791 07	
Inspection of Buildings	101 62	
Overplus on Tax Sales	118 13	
Printing and Stationery	674 00	
Property and Debt Balance	2,209,579 21	
Public Buildings Construction, Addition to		
Bingham School	17,219 56	
Public Buildings Construction, Engine		
House in Ward Two	22,260 31	
Public Buildings Maintenance:—		
Armory	48 17	
Fire Department	49 27	
Highways	148 16	
Amounts carried forward	\$3,785,351 82	\$4,171,716 19

Amounts brought forward	\$3,785,351 82	\$4,171,716 19
Police	358 54	
Public Grounds	40 45	
Sewer Department	59 90	
Public Grounds	36	
Public Library	2 67	
Public Library, Isaac Pitman Fund, Art . .	4,000 00	
Public Library, Isaac Pitman Fund, Poetry	1,000 00	
Public Library, Isaac Pitman Fund, Income,		
Art	87 15	
Public Library, Isaac Pitman Fund, Income,		
Poetry	41 49	
Reduction of Funded Debt	3,748 56	
Sealer of Weights and Measures	166 74	
Sewers, Construction	1,374 58	
Sewers, Maintenance	9 72	
Sundry Persons	474 21	
Temporary Loans	375,000 00	
	<u>\$4,171,716 19</u>	<u>\$4,171,716 19</u>

APPROVAL OF TREASURER'S REPORT.

In Committee on Finance, February 9, 1904.
To the Board of Aldermen of Somerville:—

The committee on finance, to which was referred the report of the treasurer and collector of taxes for the year 1903, reports that, in conjunction with the auditor, it has examined and audited the books and accounts of the treasurer and collector of taxes for the year ending December 31, 1903, and in the manner prescribed by section 7 of chapter 4 of the Revised Ordinances of 1900.

A careful comparison has been made with the books of the city auditor and with financial statements received from the several committees, boards, and officers of the city accountable for the use of the city funds.

The cash account has been verified by actual count of the cash on hand and the balances shown to be in the banks of deposit have been confirmed by the officials of the banks.

The committee reports that no errors were discovered in the accounts and books of the treasurer and collector, and recommends that his report be accepted and printed in the annual reports of 1903.

JOSEPH S. PIKE,	}	<i>Committee</i>
DANIEL M. FRYE,		
WARREN C. DAGGETT,		
HERBERT P. NICKERSON,		
JOHN J. HIGGINS,		
THOMAS T. M. SARGENT,		
WILLIAM A. FLAHERTY,	}	<i>on</i>
	}	<i>Finance.</i>

In Board of Aldermen, February 11, 1904. Accepted.

GEORGE I. VINCENT, Clerk.

REPORT OF THE SCHOOL COMMITTEE.

School Committee Rooms, December 28, 1903.

Ordered, that the annual report of the Superintendent be adopted as the annual report of the Board of School Committee, it being understood that such adoption does not commit the board to the opinions or recommendations made therein; that it be incorporated in the reports of the city officers; and that 1,000 copies be printed separately.

G. A. SOUTHWORTH,

Secretary of School Board.

SCHOOL COMMITTEE, 1903.

S. NEWTON CUTLER,	. . . . .	Chairman
GEORGE A. MILES,	. . . . .	Vice-Chairman

Members.

		Term expires January.
WARD ONE.		
S. NEWTON CUTLER,	28 Flint street.	1904
GEORGE S. POOLE,	46 Mt. Vernon street.	1905
WARD TWO.		
JOHN H. O'NEIL,	44 Oak street.	1904
EDWARD J. FLYNN,	273 Washington street.	1905
WARD THREE.		
GEORGE E. WHITAKER,	75 Walnut street.	1904
DANA W. BENNETT,	41 Putnam street.	1905
WARD FOUR.		
GEORGE W. W. WHITING,	282 Broadway.	1904
WILLIAM P. JONES,	13-A Maple avenue.	1905
WARD FIVE.		
QUINCY E. DICKERMAN,	86 Central street.	1904
J. WALTER SANBORN,	183 Central street.	1905
WARD SIX.		
FREDERICK A. P. FISKE,	44 Cherry street.	1904
CHARLES H. HOOD,	2 Benton road.	1905
WARD SEVEN.		
GEORGE A. MILES,	249 Elm street.	1904
HENRIETTA B. H. ATTWOOD,	18 Herbert street.	1905

The committee holds its regular meetings on the last Monday evening of each month, except July, August, and December, at 8.15 o'clock. The last meeting of the year is held on the Friday next preceding the first Monday of January.

Superintendent of Schools.

GORDON A. SOUTHWORTH.

Office: City Hall Annex, Highland avenue.

Residence: 40 Greenville street.

The Superintendent's office will be open from 8 to 12, and from 1.30 to 5; Saturdays, 8 to 10. His office hours are from 4 to 5 on school days and 8 to 9 on Saturdays.

Office telephone, 314; house telephone, 12.

Cora S. Fitch, Superintendent's clerk, 69 Walnut street.

STANDING COMMITTEES, 1903.

High Schools.—Whiting, Cutler, Flynn, Bennett, Sanborn, Fiske, Miles.
LATIN, ENGLISH.

District (or Ward) I.—Cutler, Poole.
PRESCOTT, HANSCOM, DAVIS, BENNETT.

District (or Ward) II.—O'Neil, Flynn.
KNAPP, PERRY, BAXTER.

District (or Ward) III.—Whitaker, Bennett.
POPE, BELL, CUMMINGS.

District (or Ward) IV.—Whiting, Jones.
EDGERLY, GLINES.

District (or Ward) V.—Dickerman, Sanborn.
FORSTER, BINGHAM.

District (or Ward) VI.—Fiske, Hood.
CARR, MORSE, DURELL, BURNS, BROWN.

District (or Ward) VII.—Miles, Mrs. Attwood.
HIGHLAND, HODGKINS, LINCOLN, LOWE.

Additional School Accommodations.—Miles, Poole, O'Neil, Bennett,
Jones, Dickerman, Hood.

Evening Schools.—Dickerman, Bennett, Fiske.

Finance.—Bennett, Sanborn, Hood.

Industrial Education.—O'Neil, Whitaker, Mrs. Attwood.

Music.—Whitaker, Poole, Mrs. Attwood.

Private Schools.—Hood, Flynn, Whiting.

Repairs of School Buildings.—Jones, O'Neil, Hood.

Rules and Regulations.—Cutler, O'Neil, Jones.

Salaries.—Poole, Whiting, Sanborn.

Supplies.—Sanborn, Poole, Miles.

Text-Books and Courses of Study.—Fiske, Cutler, Flynn, Whitaker,
Jones, Dickerman, Mrs. Attwood.

Vacation Schools.—Mrs. Attwood, O'Neil, Dickerman.

Note—The member first named is chairman.



MARTHA PERRY LOWE SCHOOL.

REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee of Somerville:—

The record of the thirty-second year of the school life of our city is herewith respectfully submitted.

In considering this record, attention is first invited to the following

Summary of Statistics

arranged for ready reference and comparison with that of 1902:—

1.—POPULATION OF SOMERVILLE.

United States census, 1890.....	40,117
State census, 1895.....	52,200
United States census, 1900.....	61,643
Estimated population, 1903, on the basis of assessed polls..	66,574
Estimated population, 1903, on the basis of school mem- bership in December.....	67,500
Children between five and fifteen, census returns, 1902....	11,203
“ “ “ “ 1903....	11,422
Increase	219

2.—SCHOOL BUILDINGS.

	1902.	1903.	Increase.
Number of school buildings.....	24	25	1
Number of classrooms.....	232	240	8
Valuation of school property.....	\$1,237,496	\$1,288,496	\$51,000

3.—TEACHERS.

	1902.	1903.	Increase.
In high schools.....	45	46	1
In grammar schools.....	143	147	4
In primary schools.....	89	98	9
In kindergartens	8	8	0
Total in elementary schools.....	240	253	13
Special	7	7	0
Total	292	306	14

4.—ATTENDANCE FOR YEAR.

	1902.	1903.	Increase.
Entire enrollment for the year.....	13,116	13,475	359
Average number belonging.....	10,402	10,719	317
Average number attending.....	9,733	10,056	323
Per cent. of daily attendance.....	93.5	93.9	0.4
High school graduates.....	164	181	17
Grammar school graduates.....	497	484	—13

5.—ATTENDANCE IN DECEMBER.

	1902.	1903.	Increase.
Whole number attending.....	12,648	13,065	417
In private schools.....	1,679	1,708	29
In public schools.....	10,969	11,357	388
In high schools.....	1,148	1,157	9
In elementary schools.....	9,264	10,000	736
In kindergarten	197	200	3
In first grade.....	1,585	1,651	66
In second grade.....	1,266	1,349	83
In third grade.....	1,232	1,270	38
In fourth grade.....	1,205	1,182	—23
In fifth grade.....	1,183	1,155	—28
In sixth grade.....	1,021	1,134	113
In seventh grade.....	932	964	32
In eighth grade.....	687	751	64
In ninth grade.....	513	544	31

6.—COST OF SCHOOL MAINTENANCE.

	1902.	1903.	Increase.
Salaries of teachers.....	\$229,410.00	\$238,163.61	\$8,753.61
Salaries of officers.....	4,800.00	4,800.00	0.00
Cost of books and supplies....	19,386.00	20,872.70	1,486.70
Cost of light.....	1,803.00	2,015.30	212.30
Cost of 'janitors' services.....	20,859.00	21,041.74	182.74
Cost of fuel.....	10,489.00	18,052.46	7,563.46
Total cost of day and evening schools	286,747.00	304,945.81	18,198.81
Per capita cost.....	27.57	28.46	0.89
Cost of high school instruction	50,078.00	52,432.91	2,354.91
Per capita cost	46.63	47.28	0.65

7.—MISCELLANEOUS.

	1902.	1903.	Increase.
Paid for new school buildings	\$56,501.00	\$59,822.15	\$3,321.15
Repairs and permanent improvements	13,079.00	12,260.90	—818.10
Total school expenditures	356,327.00	377,028.86	20,701.86
Valuation of city.....	55,485,370.00	56,981,360.00	1,495,990.00
Per cent. of valuation spent to maintain schools	0.517	0.535	0.018
Per cent. of valuation spent for all school purposes	0.642	0.661	0.019

School Buildings. During the last ten years eight small, primitive, wooden schoolhouses have been abandoned, eleven commodious, modern, brick buildings have been erected, and four houses have been enlarged. The following shows the expenditure for increased accommodations for the decade:—

1894.	Durell.....	4	rooms,	\$19,383
1895.	English.....	15	"	147,725
1896.	Hodgkins	12	"	60,764
1897.	Hanscom	6	"	42,032
1898.	Carr	15	"	62,125
1899.	Perry	6	"	37,612
1899.	Forster Annex	6	"	35,638
1901.	Baxter	6	"	32,309
1901.	Brown	6	"	36,868
1902.	Bennett	12	"	48,755
1903.	Lowe	8	"	50,343
1894.	Bingham	4	" added,	14,917
1894.	Knapp	4	" "	16,857
1896.	Glines.....	5	" "	26,610
1899.	Burns.....	4	" "	19,681
Total.....				113 " \$651,619

This is certainly a splendid record for ten years. It shows not only the rapid growth and continued prosperity of the city, but also the public spirit, the generosity, the loyalty and devotion of the people of Somerville to the educational welfare of their children. Besides, during this time an expenditure of \$2,385,394 has been made for the maintenance of schools.

The contribution of 1903 to our school accommodations is an eight-room building on Morrison avenue, near Grove street. While its location is not ideal, the structure itself is modern, substantial, and admirably adapted to school purposes. The cost, exclusive of grading, walks, fences, etc., is as follows:—

Land, 21,650 feet.....	\$3,500.00
Building and furnishings.....	46,843.16
Total	\$50,343.16

Elevation and floor plans are given elsewhere.

At the request of the school committee, the board of aldermen named the new school after Mrs. Martha Perry Lowe, a citizen long conspicuous for her interest and activity in every work having in view the improvement and uplifting of the community. The following sketch has been kindly furnished by a life-long friend:—

Mrs. Martha Perry Lowe was born in Keene, N. H., November 21, 1829, and died in Somerville, Mass., May 6, 1902. Her parents were General Justus Perry and Hannah Wood. She was a descendant of William Wood, the supposed author of "New England's Prospects," who left England and settled in Concord in 1638.

At the age of fifteen she was sent to the noted school of Mrs. Sedgwick, in Lenox, Mass. After her graduation she spent a winter in the West Indies, and the following year was passed in Madrid with her brother, who was a member of the Spanish legation.

In 1857 Miss Perry became the wife of the Rev. Charles Lowe. Mr. Lowe died in 1874, and at the time of his death was a member of the Somerville school committee.

Mrs. Lowe was the author of several books of prose and poetry; the most noted ones are "The Olive and the Pine," "Love in Spain," and a "Memoir of Charles Lowe."

She was interested in many public and private philanthropies, but her chief interests were in the public schools. She was among the first to advocate the teaching of cooking and sewing, and at her suggestion a sum of money was raised for that purpose, which is still held until needed by the schools.

At the meeting of the Middlesex County Teachers' Association in Somerville she was invited to deliver a poem. She was one of the founders of the Educational Union in Somerville, one of whose duties was a regular visitation of the schools by its members.

She was a member of the Society of American Authors of New York, the Authors' Club of Boston, the Woman's Education Association, the Unitarian Church Temperance Society, an honorary member of the Castilian Club, of the Heptorean Club, of the Teachers' Annuity Guild, honorary president of the Woman Suffrage League, a director of the Massachusetts Suffrage Association, president of the Woman's Alliance of the First Unitarian Church, and a member of the Cambridge Branch of the Indian Association.

One who knew her well writes: Mrs. Lowe has been the most loved and respected of all the women in her home city. It was a prominence won, not by the blind serving of social conventions, but by loyally following truth and conscience. So true as friend and adviser, so noble as citizen, so eminent as a moral force was she, that the community in which she lived may well bow its head in gratitude for the blessing of her presence through so many years."

Additional School Accommodations. There are to-day 388 more children in our schools than there were a year ago. There are 641 children of the first grade on half-time in wards one, four, five and six, besides several overcrowded rooms in the latter ward. The completion of the Bingham enlargement March first will fully relieve the situation as far as wards four and five are concerned. There will still be 800 children to be provided for, including a normal increase of 400 in 1904. The call for new schoolhouses in Somerville is becoming monotonous, but it is unavoidable so long as our city continues to grow. One of these days the supply will overtake the demand and there will be a respite. Let us consider present requirements somewhat in detail.

High Schools. The present membership of the Latin school is 406, an increase of 36 over last year. Two quite acceptable additional recitation rooms have been provided on the lower floor by taking eight feet from the master's room and adding it to teachers' rooms on the westerly side. Two additional teachers have been employed, making the present number thirteen, and giving 31.2 pupils as an average number to each. This number is altogether too large. Facilities should be furnished for at least three more teachers if the standard class unit of twenty-five is to be reached. And even with this increase, the head master would be obliged to curtail his supervisory work to engage in regular class instruction. The relief afforded by the extra rooms is temporary and wholly inadequate. All the arguments so often presented for a new building for this school still have full force. Each year of growth increases the urgency of the demand, and renders the attainment of satisfactory results more and more difficult.

Conditions in the English school are but slightly changed. Seven hundred and fifty-one pupils are at present enrolled as compared with 778 a year ago. The same contracted, unsuitable quarters are in use; there is the same congestion of various departments; there exists the same impossibility of the extension of work or even the satisfactory accomplishment of all that is undertaken. It is needless to reiterate what has been so often said regarding the pressing demands for better accommodations. The need is admitted on all sides, the only difference of opinion being as to the best way of securing what is needed. During the year, in the committee and in conferences with the city government, the whole subject has been discussed in all its phases. As to the necessity of increased accommodations there has been substantial agreement. As to the best way of securing them opinions have differed.

During the many discussions that have been held, four prominent plans of relief have been suggested. I mention them in the order in which they have been made, that all interested may know about them.

1. The addition to the English building of two wings connected by an assembly hall.

2. The construction of a new Latin building to be located east of the present structure, which in such an event would be occupied by the English school.

3. A comprehensive plan that provides for a new Latin building east of the present one, and the addition of a wing on the northeasterly corner of the English school, the two new structures to be connected by a building containing an exhibition hall and other rooms to be used by either school as necessary.

4. It has been suggested that the present English building might be occupied by the Latin school, and a new building constructed with an easterly frontage in which the present Latin building should be incorporated, the new building extending toward the front and rear as might be found necessary.

The financial side of the problem need not be here discussed. Suffice it to say that the future may well be asked to share with the present the expense of an undertaking from which both alike profit.

Ward One. There are still one hundred first-grade children on half-time in this ward. This is made necessary by the occupation of the needed room by the Hanscom kindergarten. Whatever may be said for or against half-time sessions it is certain that most parents prefer to have their children attend school all day. On the other hand patrons of the kindergarten protest strongly against its suspension.

The Hanscom schoolhouse was planned with the definite expectation of its enlargement by the addition of two rooms. This could be done with the minimum of expense, and would meet

the imperative needs of this section of the city. Such enlargement is strongly recommended.

The twelfth room in the Bennett school will probably be occupied in September next, thus justifying the construction of a twelve-room building in that section.

Wards Two and Three. There has been a small increase in the school population of these wards during 1903 according to the school census, but the six existing school buildings afford ample accommodation at present for all who wish to attend the public schools.

Wards Four and Five. The original recommendation of the board for a six-room addition to the Bingham schoolhouse was subsequently modified by a request for an eight-room enlargement with a view to housing pupils living in the Murdock-street district, and now attending the schools of ward six. This request was honored by the city government, and eight additional rooms will be ready for occupancy probably by the first of March next. Of the sixteen rooms then found in the Bingham plant, ten will be occupied by the children already there. Four others will be filled by classes now in the Forster, which were organized in September with this transfer in mind. Of the two rooms remaining, one will be used in September for kindergarten purposes, and the other will be crowded with new first-grade children. This with transfers from ward six schools will fill every available seat in the building. It is doubtful, however, whether these accommodations will long suffice, for no building can graduate forty at the top and receive one hundred at the bottom each year without soon overflowing.

Two of the four rooms vacated by transfers at the Forster are in the basement of the annex. They were designed for industrial-education purposes, are unsuitable for classrooms, and should remain unused unless occupied as originally planned. The third room of the four will at once be used by a first grade now on half-time, while the remaining room will remain vacant until September, when the transfer into it of a class from the Glines will relieve the half-time conditions in that school.

Ward Six. This is the largest ward in the city. Its schools contain more pupils and more teachers than those of wards two and four combined. Its schools are more urgently in need of relief from overcrowding than those of any other ward. They receive pupils from wards two, three, and five. In this respect they are not exceptional. Many of our schools are located on the border lines between wards, and of necessity receive pupils without reference to ward lines. A conspicuous example of this is the Brown school. This school was established three years ago in response to an urgent call from ward seven for additional school accommodations. It was wisely placed in the centre of a rapidly growing district. It was built on the ward six side rather than on the ward seven side of Willow

avenue because land free from rocky ledge could be had there at less price. The territory that it accommodates lies half in one ward and half in the other, and its pupils must of necessity come from both wards.

In the Carr, Morse, and Burns, three hundred first-grade pupils are on half time, and in the Durell and Morse, three extra teachers are employed in overcrowded classes. Some relief must be at once afforded.

The recommendation of last year that a six-room building be constructed on the Standpipe lot on Spring Hill is here renewed. The location is in the centre of the district to be accommodated. It would relieve the three crowded schools and allow room for future growth. The lot on Hudson street in the rear of the Armory is not as favorable a location for two reasons. First, it is situated in ward five rather than in the ward that needs relief. Secondly, it would naturally draw pupils from the Forster school, which will be relieved of any danger of overcrowding by the opening of the Bingham enlargement.

Ward Seven. The Martha Perry Lowe school was opened and filled at the beginning of the current school year in September. To it were sent all primary pupils from the Highland and Hodgkins with the exception of fifty first-grade pupils left in the latter school. All pupils of the Brown school living in ward seven were removed and sent either to the Lowe or the Highland, leaving in the Brown children from one-half of its natural district. This concentration of primary pupils instead of distributing them in buildings more conveniently located is a reversal of the general plan.

This new building affords but temporary relief to the ward. The Lincoln school is even now so large as to demand the services of an extra assistant. In September the Lowe school will graduate one class and will receive three classes, one second-grade class from the Hodgkins, and two first-grade classes of beginners. The Highland school will graduate two classes and receive three classes from its natural feeders. This makes three surplus classes to be accommodated in September next within or without the ward. The Brown school is easily accessible for this overflow. The building is not, however, large enough to accommodate all pupils who would naturally be sent to it even after it has made its contribution to the Bingham enlargement. This building was planned with especial reference to a four-room addition. This can easily be made at a minimum of expense, and will furnish ten rooms, and give us an additional grammar-school centre with nine grades in a locality which will very soon imperatively demand it. I recommend that the Brown school be at once enlarged by the addition of four rooms.

To recapitulate our needs in the order of their urgency:—

- 1, A new building for high school purposes.

2. A six-room building on the old Standpipe lot in ward six.

3. An addition of four rooms to the Brown school on Willow avenue.

4. The addition of two rooms to the Hanscom school in ward one.

School Census. In conformity with the laws of the state, enumerators were employed between September 1 and November 15 to ascertain the number of children between five and fifteen years of age resident in the city on the first day of October, 1903, and to record the full name, the date of birth, the age, the place of residence, the name of father or guardian, the school attended or reasons for non-attendance, and the number of illiterate minors. It may be well by the way to correct a wrong impression that the legal school age is between five and fifteen, and that the city is obliged to provide school accommodations for all such children. The fact that years ago the income of the state school fund was distributed among towns in proportion to the number of children between these ages resident in each town may have given rise to the impression. There is no statute affecting the age at which children may attend school. This matter is left optional with school committees. The only absolute requirement is that all children between the ages of seven and fourteen must attend school during the entire time that the schools are in session. An inexcusable absence of five days within any six months subjects the parent or guardian to prosecution and fine. Illiterate minors over fourteen years of age who are at work are required to attend evening schools under penalty laid upon such employers as neither insist upon such attendance nor discharge the delinquent employees. Minors between the ages of fourteen and sixteen must either attend school or be at work. Otherwise they are "habitual absentees" and may be proceeded against as if truants.

It is difficult to take a census of school children with absolute accuracy. Absence from home, the difficulty of communicating with non-English-speaking foreigners, changes in residence while the census is being taken, and a disposition on the part of some suspicious persons to withhold information are obstacles in the way. All possible care, however, is exercised by the enumerators. The following are the returns:—

	1903.	1902.	Change.
Ward 1.....	1,780	1,701.	+79
“ 2	2,533	2,436	+97
“ 3	947	936	+11
“ 4	1,006	1,037	—31
“ 5	1,881	1,880	+ 1
“ 6	1,875	1,829	+46
“ 7	1,400	1,384	+16
Total	11,422	11,203	+219

These returns as compared with those of 1902 show a loss of 31 in ward four and an increase in all the other wards, aggregating a net gain throughout the city of 219 children. On the first of October perfectly reliable returns from the schools showed an increase of 302 children as compared with the corresponding date last year. This difference of 83 is attributable to causes indicated above.

The most reliable basis for comparison to show the growth of the schools is their membership in December, the month of high water mark. In December, 1902, the schools contained 10,969 children; in 1903, the membership was 11,357. This indicates a gain during the year of 388 children. The increase in the membership of the schools for the last ten years is shown below:—

Year.	Membership.	Increase.
1894	7,649	
1895	8,191	532
1896	8,705	514
1897	9,078	373
1898	9,637	559
1899	10,075	438
1900	10,365	290
1901	10,642	277
1902	10,969	327
1903	11,357	388
Total increase.....		3,708
Average increase.....		412

Length of School Year. The statutes provide that the city shall maintain elementary schools for at least thirty-two weeks in the year, and a high school for forty weeks. For many years school vacations have been so arranged as to give all our schools a theoretical year of forty weeks. There have always been interruptions and losses from legal holidays, stormy weather, the extension of vacations by the board at Thanksgiving, Christmas, and at the end of the school year, by teachers' conventions, and the dismissal of schools on special occasions. The table below shows what the losses have been from these various causes during the last six years:—

	1898.	1899.	1900.	1901	1902.	Average 5 years.	1903.
No. of sessions in the theoretical school year	400	400	400	400	400	400	400
Lost — legal holidays	10	10	14	14	10	11.6	10
“ stormy weather	11	8	4	10	6	7.8	9
“ extension of vacations	11	10	11	11	12	11.0	22
“ Teachers’ Association	2	2	2	2	2	2.0	2
“ special occasions	1	0	0	2	0	0.6	2
Total	35	30	31	39	30	33.0	45
Actual school sessions	365	370	369	361	370	367	355

It will be seen that the average loss for the five years preceding 1903 has been thirty-three sessions, or three weeks one and one-half days. This year, owing to the fact that the second Monday of September comes at the latest possible date, an extra week has been lost, the schools having kept but thirty-five and one-half weeks. This average loss of eight per cent. of the year becomes a serious matter unless it is inevitable and without remedy or compensation. By general admission much more is required of the schools now than formerly, and yet there has been a loss rather than an increase of the time available for its accomplishment. There is, perhaps, no avoidance of loss of time from legal holidays. It may be an open question, however, whether the schools might not profitably keep on Washington’s Birthday and on Patriots’ day. There are no local celebrations to distract attention. School exercises in commemoration of the Father of his Country and of the heroism of the patriots, now held on other days, might be relegated to the holidays with a gain both in time and in the impressiveness of the lessons taught.

The loss of time resulting from “excessive heat or cold or severe storms” demands consideration. The ringing of the storm signal is the most perplexing and difficult duty the superintendent has to perform. On the one hand the danger of exposure of children to the inclemency of the weather, and on the other the loss to school work send the balances up or down. I am governed in the discharge of this duty by weather conditions at the hour appointed for striking the signal. If mistakes are made they come from inability to see far into the future. In the “good, old days,” and even now in very many localities, storm signals were and are unknown. Children were accustomed to face the elements and inured to exposure. The signal is doubtless rung on some days when nearly all pupils in the grammar schools could attend without endangering health. There are many days when the signal is not struck on which the superintendent’s tele-

phone is kept in active operation by disappointed inquirers as to schools' keeping, some of whom do not hesitate to reprimand him for neglect of duty.

It is doubtful whether the loss of a day on account of the annual meeting of the Middlesex County Teachers' Association is justified by the advantages resulting. The expression of opinion by the board that this convention should be held on a Saturday made no impression upon the association. This day may very properly be saved to the schools.

As to the extension of vacations, a day and a half may well be taken before and after Thanksgiving, and a half-day before Christmas. All other extensions are avoidable.

Schools began this year on the fourteenth of September. Six hundred pupils did not enter until the twenty-first and many delayed their return until October. It is probable that it would be difficult to fix a date for the fall opening of schools on which all pupils would begin work. The schools of Boston and Cambridge begin on a Wednesday. This gives three days in the week for the distribution of books and supplies and the organization of classes, and enables pupils to get down to solid work on the following Monday. This day for beginning the fall term seems an excellent one, and no substantial argument suggests itself against its adoption by us.

I venture to raise the inquiry whether it is not possible for us to lengthen the school year practically two weeks by extending the afternoon session a half hour during the five months of longest daylight. Children are now in school on the average 871 hours, less than a tenth of the year. If those exercises which less severely tax the strength of the pupils should engage the closing hour of the session no strain would be imposed that the normal child would be unable to bear. The suggestion is worthy of consideration.

In this connection it may be well to remark that the schools passed through the "coal famine" without the loss of a day on account of scarcity of fuel, thanks to the energy and foresight of Mayor Glines. One or two schools were frequently dismissed during the winter on account of cold rooms caused by janitors' neglect. The month of June was cold and sunless and fires were necessary for health and comfort. This abnormal condition of the weather, however, was not anticipated, and so the boilers in many of the buildings were dismantled and no heat was available. Several of the schools lost from three to ten sessions on this account.

School Attendance. Every teacher keeps two enrollment lists; one, for state officers, records the name of every pupil who has attended a school in this city for any length of time during the year, provided he has attended no other school in the state. The other list records the names of those pupils who have attended no other school in Somerville during the year. Accord-

ing to this latter list, 13,475 pupils have been enrolled in the city during 1903.

Not all of these pupils have been connected with the schools at one time. According to the rules of the state department of education a pupil's membership is terminated (1) by death; (2) by removal; (3) by withdrawal with no intention of returning; and (4) by ten consecutive days' absence from whatever cause. Excluding from the enrollment lists names dropped for any of these reasons, we reach the average membership of the schools, which for 1903 is 10,719, an increase for the year of 317. This average membership is important because it furnishes the basis for estimating the per capita cost of instruction.

The average attendance of the schools is determined by taking into account all absences from whatever cause during the period of membership. It shows the number of pupils who are in school on the average every day of the school year. The average attendance for 1903 is 10,056, an increase over last year of 326. The average attendance is 93.9 per cent. of the average membership, showing a loss of 6.1 per cent. occasioned by illness or other causes in most cases providential or unavoidable. The state recognizes the importance of regular attendance of children of the compulsory school age by providing for the prosecution and punishment by fine of any parent or guardian who keeps a child under his charge out of school more than five days within any six months. There have been infractions of this law in Somerville, but no prosecutions. Many children are kept out of school at the opening of the year, or are withdrawn near the close, and now and then a parent is found indifferent to the interests of his child who allows his absence for trifling reasons. As has been said before, the school year is very short. Every absence necessarily affects the progress of the child. The best results are obtained when every pupil is present every day from start to finish.

During the year there have been 3,428 cases of tardiness, which shows one instance of being behind time out of 1,013 chances of being prompt. As compared with other cities, and indeed with our own past records, this number is not large. Nevertheless, the responsibility for tardiness rests upon parents generally, and much of it is avoidable. Teachers use all legitimate means to secure regularity of attendance, and sometimes in their zeal bring influences to bear that are not wholly warranted.

In 1903 there have been 1,969 instances of parents requesting the dismissal of their children from school before the close of the session, one case in 1,764 opportunities.

In these days of pressure every moment of the school days should yield its full value. Some schools waste or misuse ten minutes daily. This is the loss of a week per year. In some buildings the majority of pupils will be found at their desks and at work fifteen minutes before the hour. They gain two weeks

of time annually in this way, besides being freed from exposure to the frequently pernicious influences of the playground.

In the ideal school every moment is utilized. The teacher comes early; her own preparation of the day's lessons has been previously made; every exercise has been planned; ink, paper, pencils, books,—everything is in its place ready for methodical distribution; promptly on time the doors are opened and pupils are seated and begin work, the blackboard furnishing ample directions; with the stroke of the clock school is opened; each exercise begins and ends at the appointed time, and has a well-designed object in view; the transition from one line of business to another is quickly and noiselessly made; there is no delay, no dawdling, no hurry. The silent influence of such a school for good is incalculable. Why should it be exceptional save that it requires energy, system, life, tact, ability in the teacher?

On the fifteenth of December, the number of pupils in the schools was as follows:—

In the Latin school.....	406
In the English school.....	751
In the elementary schools.....	10,000
In the kindergartens.....	200

A total of..... 11,357

Adding to this number the 1,708 pupils in private schools, we have 13,065 school children in the city.

Teachers. There are now 299 teachers regularly employed in the city, twenty-five men and 274 women. This does not include forty-four at present at work in evening schools, nor seven third assistants temporarily engaged. There were 369 names on the November pay-roll, including substitutes.

During 1903, twenty-one teachers have resigned. Three of them, Misses Blood, Damon, and Wilder, relinquished teaching altogether after a long and faithful service of twenty-one, twenty-four and twenty-nine years, respectively. Two left us on account of ill-health. Three others accepted positions at larger salaries, while the somewhat unusual number of thirteen resigned to be married. Excluding the three teachers mentioned, the average term of service of the remaining eighteen was only four years. Among the teachers who left us during the year were some of the very best in our corps, teachers whose service has been especially profitable not only in their influence and success within their own schoolrooms, but also in the stimulus their example gave to others. Such teachers it is difficult to replace.

Twenty-six teachers have been elected during the year, either to fill vacancies or for newly-established schools. In their selection, our long-established custom of securing the best teachers to be found for our maximum salary has been followed. Only thus can our losses be made good and our standards maintained. With two exceptions, these new teachers have had a

long and successful experience, and were ranked among the very best in the places they left. What I said in my report for 1894 concerning teachers every year's experience since then has most emphatically confirmed, and I repeat it here:—

How to secure and retain the best teachers is the perpetual and perplexing problem upon whose solution depends the success of all our efforts in education. The teacher is the heart and soul of the school. Upon her depend its life and power. In exact proportion as the teacher lacks high moral character, the power of personal influence, refined taste and manners, good scholarship, and thorough professional training, the school fails to accomplish its purpose. Given these qualities, and the highest success is certain, irrespective of material surroundings. We can get along with poor or crowded buildings, with meagre or ill-adapted appliances, with enriched or impoverished courses of study, but good teachers are indispensable.

It is interesting to note that of our present corps of 306 teachers, only eighty-four were in service ten years ago. During the last decade 294 teachers have been chosen and elected, 173 have resigned, and three have died. Of those that have resigned, twenty-three have retired from teaching for rest or other employment. Ill-health has caused sixteen resignations. Marriage has taken off seventy-four, while seventy have been drawn away by the attraction of larger salaries. Of the latter class, Boston has taken eighteen, the normal schools, eleven, Brookline, eight, Newton, four, and twenty-eight have gone to fill more attractive positions as principals or teachers elsewhere in New England. We have retained the services of five teachers now in the high schools by a slight increase of salaries, but the expected retention of teachers in competition with other cities by the general increase made three years ago has not been realized. We have lost the same relative numbers since the increase as before. These facts are given not only as information, but to show that in the future we may expect to lose about seven per cent. of our teaching force annually, four-fifths of whom will be drawn away in nearly equal numbers by the attractions of wedded life or larger incomes.

Latin School. This school now has a membership of 406, as against 370 a year ago. It is divided as follows:—

	1903.	1902.	Change.
Freshman	121	125	—4
Sophomore	106	97	+9
Junior	95	88	+7
Senior	84	60	+24

Allusion has already been made to the addition of two recitation rooms and to the consequent employment of two additional teachers, making the number now in the school thirteen, and giving an average of thirty-one pupils to a teacher, including the head master, who conducts recitations on ten of the twenty-five weekly periods. One of these new teachers is a graduate of the Somerville high school, with college training at Radcliffe and Dartmouth, and six years' high school experience at Concord,

N. H. The other is a Wellesley graduate of long and successful experience in the Dedham high school.

Any attempt here to set forth anew the limitations and needs of this school and the advantages of a lengthened course would be stale and unprofitable. The growth of the school only emphasizes the demand for suitable accommodations, and the early solution of a perplexing but important problem will secure facilities for making its work most effective.

The school graduated a class of forty-six in June. Thirty-six of the senior class are now pursuing advanced courses of instruction.

TABLE SHOWING LOSSES OF CLASSES IN LATIN HIGH SCHOOL EACH YEAR SINCE 1896.

MEMBERSHIP.	Class of 1899.	Class of 1900.	Class of 1901.	Class of 1902.	Class of 1903.	Class of 1904.	Class of 1905.	Class of 1906.	Class of 1907.
December 15, 1st year . . .	...	79	89	77	64	103	111	125	121
“ “ 2nd “ . . .	67	67	80	73	47	93	97	106	...
“ “ 3rd “ . . .	63	57	64	64	49	88	95	...	...
“ “ 4th “ . . .	57	53	65	62	60	84	...	...	...
Graduates . . .	55	48	56	56	46	...	...	...	...
Loss per cent. 1st year . . .	...	15.2	10.1	5.2	26 5	9.7	12.6	15.2	...
“ “ 2nd “ . . .	6.0	15.0	20.0	12.3	4.3*	5.4	2.1	...	...
“ “ 3rd “ . . .	9.5	7.0	...	3.1	22.4*	4.5	...	...	...
“ “ 4th “ . . .	3.5	10.4	13.8	9.7	23.3*	...	...	...	...
Total . . .	...	39.2	37.0	27.3	28.1	...	...	...	...

* Gain.

Number of students in the different departments in the Latin high school since September:—

English	414	Latin	414
History	219	French	115
Mathematics	414	German	163
Science	65	Greek	103

English School. The present membership of this school is 751, as against 778 one year ago. The classes number as follows:—

	1903.	1902.	Change.
Freshman	252	250	+2
Sophomore	190	214	—24
Junior	180	147	+33
Senior	112	151	—39
Special	17	16	+1

There are thirty-one teachers, exclusive of the head master and secretary. The average number of pupils to a teacher is 24.2. The head master meets all pupils for one period a week, but otherwise has no regular class work. The secretary does no teaching, being constantly occupied with other duties. The number of regular teachers is one less than last year, the place of

Mr. Leonard, away on leave of absence for a year, not having yet been filled.

There were 135 in the graduating class, of whom twenty-four are now pursuing advanced courses in other institutions.

Nothing has been done during the year to relieve the congested conditions which have so long handicapped this school and rendered the accomplishment of its best work extremely difficult, if not impossible. Two-thirds of all our high school students, deprived of farther educational advantages, depend upon this school to complete their academic training. They enter upon the activities of business life when they graduate. Their equipment should be the best we can furnish. It is excellent in many respects even now, but a wider range of subjects and an extension of courses would much improve it. But it is needless to enlarge on a question already often fully discussed. Each year doubtless brings us nearer the attainment of ideal conditions in our high schools, but delays, while they may save money, entail losses of opportunity that are remediless.

One new teacher has been added to the corps to fill the vacancy caused by the resignation of Miss Seaver, Nina A. Cummings, the first graduate of the school to occupy such a position.

The following tables show the number pursuing each subject of the curriculum since September, and the annual losses of various classes:—

English	784	Mechanical drawing	218
History	677	Freehand drawing	381
Mathematics	554	Commercial	159
Science	556	Stenography	295
Latin	107	Elocution	774
French	273	Manual training	160
German	137		

TABLE SHOWING LOSSES OF CLASSES IN ENGLISH HIGH SCHOOL EACH YEAR SINCE ITS ORGANIZATION.

MEMBERSHIP.			Class of 1899.	Class of 1900.	Class of 1901.	Class of 1902.	Class of 1903.	Class of 1904.	Class of 1905.	Class of 1906.	Class of 1907.
December 15, 1st year	.	.	192	228	211	217	299	246	261	250	252
“ 2nd	“	.	149	163	153	162	221	178	214	190	...
“ 3rd	“	.	121	119	125	135	178	147	180	...	...
“ 4th	“	.	98	97	108	120	151	112	...	...	...
Graduates	.	.	86	83	96	108	135	...	...	...	...
Loss per cent. 1st year	.	.	22.4	24.1	27.5	25.3	26.0	27.2	18.0	24.0	...
“ “ 2nd	“	.	18.7	27.0	18.0	16.6	19.5	17.4	15.9	...	...
“ “ 3rd	“	.	19.0	18.5	13.6	11.1	15.2	23.8	...	...	...
“ “ 4th	“	.	12.2	14.4	11.1	10.0	10.6	...	...	...	...
Total	.	.	55.2	63.6	54.5	50.2	...	...	...	...	...

Grammar and Primary Schools. The membership of these schools December 15 was 10,000. In the table which follows, the distribution of the number among the grades is shown. To indi-

cate changes, the percentage of distribution in all the grades, including the high schools, as recorded ten years ago, is also given:—

DISTRIBUTION OF PUPILS IN GRADES.

		Percentage.				
		1903.	1894.	1903.	1894.	Change.
Grade 1	.....	1,651	1,384	14.8	18.1	—3.3
“ 2	.....	1,349	984	12.1	12.9	—0.8
“ 3	.....	1,270	847	11.4	11.1	+0.3
“ 4	.....	1,182	834	10.6	10.9	—0.3
“ 5	.....	1,155	824	10.3	10.8	—0.5
“ 6	.....	1,134	668	10.1	8.8	+1.3
“ 7	.....	964	590	8.6	7.7	+0.9
“ 8	.....	751	458	6.7	6.0	+0.7
“ 9	.....	544	398	4.9	5.2	—0.3
“ 10	.....	373	261	3.4	3.4	—
“ 11	.....	296	177	2.7	2.2	+0.5
“ 12	.....	275	130	2.5	1.7	+0.8
“ 13	.....	213	94	1.9	1.2	+0.7
Total		11,157	7,649			

It will be seen from these figures that there are relatively fewer children in the five lower grades, while the number in the sixth, seventh and eighth grades has increased. There are fewer in the ninth grade, the number in the freshman class in the high school is proportionately exactly the same, and there has been a relative increase in the three upper classes of the high schools. It is encouraging, then, to notice that pupils are passing more quickly through the lower grades, and are remaining in larger numbers in the higher grades of the grammar and high schools.

The grammar schools graduated 484, of whom 354, or seventy-three per cent., entered the high schools, 112 going to the Latin and 242 to the English.

The numbers in the class as it has passed through the grades are as follows:—

	Loss.
December, 1897, fourth grade.....	964
December, 1898, fifth grade.....	950
December, 1899, sixth grade.....	860
December, 1900, seventh grade.....	756
December, 1901, eighth grade.....	616
December, 1902, ninth grade.....	513
June, 1903, graduates.....	484

It will be observed that more than one-third of the class dropped out between the sixth and ninth grades. This ratio of loss has been so often observed that it may be confidently expected that one-half of every fourth grade will leave school shortly after passing the compulsory school age.

There has been no increase in the number of grammar school graduates for three years, a fact which shows either that larger numbers are leaving school for business, or that the standard for passing from one to another of the higher grades is growing more rigid. The number of employment certificates issued to

children fourteen or fifteen years of age for the last five years is as follows:—

1899	162
1900	171
1901	176
1902	205
1903	243

The increase is disproportionate to changes in population. Possibly the labor laws are more strictly enforced. Whatever influence this factor may have in diminishing the number of grammar school graduates, a study of the promotion table found elsewhere will show that thirty per cent. of the seventh-grade pupils and twenty-eight per cent. of those of the eighth grade were either promoted conditionally or held back altogether in June of this year. This number seems unduly large. Pupils become discouraged under these conditions, and probably many drop out of school who would otherwise remain.

In connection with the expediency of the half-time plan in the lowest grade, I find that only twenty-one and one-half per cent. of first-grade children on full time were left behind to repeat the year, as against twenty-nine per cent. of the half-time children, a difference of seven and one-half per cent. in favor of the all-day session. In the second grade the same difference is noticeable, although not quite as marked, seventeen per cent. of the children on half-time the previous year being held back, as against eleven per cent. of full-time children. These facts indicate a distinct loss by the half-time plan, and weigh in favor of giving all children a full school day.

As showing the changes in membership that are constantly occurring, the following facts are interesting:—

Number entering from schools outside the city.....	1,348
“ “ first grade.....	1,171
“ that were graduated.....	665
“ that left school to go to work.....	243
“ that left school by removal from the city.....	1,223
“ of transfers from one school to another in the city,	2,194

Kindergartens. Four kindergartens have been maintained during the year in the Hanscom, Bennett, Baxter and Glines schools. The cost of instruction has been \$3,927, and of supplies, \$98.93. The per capita cost, based on the average membership, has been \$21.08.

There is an urgent demand for kindergartens in other parts of the city by people who recognize their advantages. It seems better, however, to forego these advantages, rather than to deprive older primary children of full-time sessions. A fifth kindergarten will doubtless be opened in the Bingham school when completed, and the system will be extended to all parts of the city whenever suitable accommodations for all are provided.

The following table shows facts in detail:—

	Hanscom.	Bennett.	Baxter.	Glines.	Total.
Enrollment	103	101	97	101	402
Average membership	48	50	45	48	191
Average attendance	44	39	38	41	162
Per cent. attendance	91.3	78.0	83.8	86.4	84.7
Age	4—8	4—7	4—9	4—7	4—8

Evening Schools. In the elementary schools the season of 1902-1903, extending from October to April, was, on the whole, the most satisfactory in our experience. Seven hundred forty-one students from fourteen to sixty years of age attended a portion of the time. Only 251 of them, or thirty-four per cent., attended all the time. This was only a slight increase in regularity, as compared with the previous season. This comparatively small attendance shows the crowning difficulty that the evening schools present. We have thus far found no way of retaining all the pupils who enter. Irresolute of purpose, they are drawn away, many of them quite early in the season, by other and to them stronger attractions. The attendance by months is as follows:—

October, 384	December, 223	February, 176
November, 320	January, 206	March, 123

The Prescott and Bell schools were kept ninety-six sessions, and the Highland and Forster seventy-seven sessions each. The latter two schools were closed the last of February, owing to the smallness of the numbers in attendance. The cost of these schools was a trifle less than last year, being \$0.279 per pupil per evening, or about fourteen cents an hour for each pupil in attendance. The cost per pupil per hour in the elementary day schools is about three cents.

In the evening drawing school 178 different students were enrolled, seventy-eight, or forty-four per cent., of whom attended on each of the forty-seven sessions. The attendance by months was:—

October, 109	December, 61	February, 65
November, 92	January, 71	March, 68

Although the number of pupils in February was forty-four less on the average than in October, the same number of teachers was employed. The forty-eight pupils that began in October and dropped out before the end of December received practically no profit whatever from the expensive instruction that was given them, and should have been excluded altogether. Some means should be devised, if possible, to secure continuous attendance from those who enter.

and Lynn alone are without them. I recommend that such a school be opened in one of the high school buildings another year.

The following table shows the principal facts concerning evening schools for 1902-1903. Details may be found in the Appendix.

EVENING SCHOOLS.

	Elementary.		Drawing.		Total.	
	'01-'02.	'02-'03.	'01-'02.	'02-'03.	'01-'02.	'02-'03.
Enrollment.....	700	741	211	178	911	919
Average attendance....	236	251	99	78	335	329
Per Cent. of attendance.	33.7	33.9	46.9	43.8	36.8	35.8
Teachers.....	28	28	6	6	34	34
Sessions.....	300	346	46	47	346	393
Cost..	\$5,452	\$5,857	\$1,424	\$1,331	\$6,876	\$7,188
Cost per capita*.....	23.10	23.33	14.38	17.07	...	....
Cost per pupil per evening.....	0.303	0.279	0.310	0.363	....	....

*Based on average attendance.

Vacation School. In January last the school board expressed its conviction that the vacation school in Somerville had ceased to be an experiment by adding to its list of standing committees one whose duties would be to manage such schools. Mrs. Attwood and Messrs. O'Neil and Dickerman constituted this standing committee.

All furniture having been removed from the Prospect Hill schoolhouse, the sessions of the vacation school were held in the Bell school. Here ten classes, composed of children from second to seventh grade, were organized, each holding a two-hour session between eight and twelve. Four hundred eighty-eight children were enrolled. Nineteen different day schools were represented, as shown below:—

Prescott,	1	Bell,	64	Brown,	3
Davis,	4	Cummings,	5	Durell,	4
Bennett,	20	Edgerly,	2	Morse,	39
Knapp,	40	Glines,	3	Lincoln,	2
Perry,	25	Forster,	10	Parochial,	40
Baxter,	12	Bingham,	98		
Pope,	24	Carr,	92	Total,	488

The attendance for each of the five weeks between July 13 and August 14 was 365, 357, 310, 273, 261. This shows a loss of 104 in the average attendance during the five weeks. Seventy-three children did not lose a session, and 131 others lost but one session. The school was under the efficient management of Harry F. Hathaway, aided by six experienced teachers from our regular corps. To the work of last year, consisting of wood working, cardboard construction, drawing, cutting, painting, weaving raffia, scrapbook making, and sewing, were added

basket making, crocheting, and weaving with raffia and worsteds on small looms. The children were absorbed enthusiastically in the work, rendering restraint and discipline needless.

The design of the school was not fully accomplished this year in that it failed to reach the poorer class of children, most of whose vacation life is spent in the streets. This was probably due to the location of the school outside of the centres to be benefited. It will probably be found better another year to divide the school, holding sessions at the Bennett, Perry, and Bingham school-houses. This would somewhat increase the expense, but the benefits will be commensurate. At least one thousand dollars should be appropriated this year for vacation school expenses. The cost and attendance of the school are shown below:—

	1901.	1902.	1903.
Appropriation	\$500.00	\$500.00	\$500.00
Paid teachers.....	\$405.00	\$427.50	\$377.50
Paid for supplies.....	99.26	123.43	162.64
Total	\$504.26	\$550.93	\$540.14
Average attendance.....	317	365	311
Per capita cost.....	\$1.59	\$1.51	\$1.73
Number of classes.....	10	12	10

Cost of the Schools. The total amount spent in the maintenance of the schools of Somerville in 1903 is \$304,945.81. This does not include the sums spent on schoolhouse repairs and for new buildings. It does cover first the amount paid for the care of school buildings, for janitors' services, and fuel and light. With this expenditure the school board has nothing to do, it being wholly in charge of the commissioner of public buildings, who hires janitors and fixes their salaries.

The amount paid for janitors is.....	\$21,041.74
The cost of fuel is.....	18,052.46
The cost of gas and electric light and power.....	2,015.30
A total of.....	\$41,109.50
The cost per capita.....	\$3.84

The fuel bill for 1903 is much larger than usual, owing to the high price of coal during the early part of the year. The expense for light is largely chargeable to evening schools, and also includes power used in running electric motors at the English high school and at the Glines.

The second important expenditure is wholly under the control of the board, and is covered by what is known as the "School Contingent" appropriation. The following are the chief items:—

Officers' salaries.....	\$4,800.00
Books	\$8,236.42
General supplies.....	3,953.73
Laboratory and manual training supplies...	1,747.98
Printing	1,032.98
Graduation exercises.....	1,178.16
Drawing supplies.....	1,003.53
Bookbinding	828.32
Truant officer's horse.....	240.00
Express and postage.....	200.00
Board of truants.....	629.29
School census.....	272.38
Telephones	194.89
Miscellaneous	1,355.02

Total for school supplies, etc.....	20,872.70
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Total outlay on school contingent account.....	\$25,672.70
Estimate of the committee.....	25,000.00
Appropriation	24,000.00
Deficiency as compared with appropriation.....	1,672.70
Deficiency as compared with estimate of committee.	672.70
Received for damage to school property and tuition of non-residents.....	133.86
Net deficiency.....	538.84

This deficiency is caused by an unusual expenditure for books, owing to the reorganization of the Highland, Hodgkins, and Bingham schools.

The third and by far the largest element of the cost of schools is the sum spent for the salaries of teachers. The following shows the monthly payments:—

January	\$23,959.22
February	23,753.39
March	23,683.33
April	22,928.02
May	22,918.22
June	22,826.29
August	377.50
September	23,322.10
October	24,807.36
November	24,861.99
December	24,726.19
Total	\$238,163.61
Estimate of committee and appropriation.....	238,000.00
Deficiency	163.61

The total outlay for all purposes in 1903 is as follows:—

Teachers' salaries.....	\$238,163.61
Administration	4,800.00
Care of schoolhouses.....	41,109.50
School supplies.....	20,872.70

Total for school maintenance.....	\$304,945.81
Paid for repairs.....	12,260.90
Paid for new buildings.....	59,822.15

Total for all school purposes.....	\$377,028.86
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Each dollar of the sum spent for the support of schools has been divided in the following proportion:—

	1900.	1901.	1902.	1903.
Teachers' salaries.....	\$0.799	\$0.790	\$0.800	\$0.781
Administration	0.018	0.017	0.017	0.013
Janitors' salaries.....	0.074	0.071	0.073	0.070
Heat and light.....	0.048	0.055	0.042	0.067
School supplies.....	0.061	0.067	0.068	0.069
Total	\$1.000	\$1.000	\$1.000	\$1.000

Per Capita Cost. The best way of comparing the cost of the schools year by year is by considering their cost for each pupil in the average membership. The following table shows

PER CAPITA COST FOR 1902 AND 1903.

	High Schools.			Grammar and Primary Schools.			All Schools.		
	1902.	1903.	In- crease.	1902.	1903.	In- crease.	1902.	1903.	In- crease.
Instruction . . .	\$46 63	\$47 28	\$0 65	\$19 74	\$19 83	\$0 09	\$22 52	\$22 67	\$0 15
Supplies	5 10	5 32	0 22	1 49	1 56	0 07	1 86	1 95	0 09
Care	4 96	4 43	*0 53	2 98	3 77	0 79	3 19	3 84	0 65
Total	\$56 69	\$57 03	\$0 34	\$24 21	\$25 16	\$0 95	\$27 57	\$28 46	\$0 89

* Decrease.

From this table it will be seen that the cost of instruction in the high schools has been \$47.28, an increase of sixty-five cents per pupil. This is due mainly to the increase of salaries in the English school, in conformity to the schedule that adds \$100 annually to salaries of sub-masters until the maximum is reached. The per capita cost of supplies is twenty-two cents more than last year, being \$5.32. This is owing in part to the demand for new books in the English school, to replace those that have been discarded after seven years of use, and in part to the call for additional supplies in the departments of science and manual training. Of the \$6.53 per pupil paid for supplies in the English high, \$2.80 was for laboratory and manual training supplies, and \$3.73 for books and general supplies. The expense for care of buildings is \$4.43, fifty-three cents less than last year. This is because a portion of the year's coal bills is still unpaid. The net increase in the per capita cost of high schools is \$0.34, being \$57.03 for the year.

The per capita cost of instruction in the grammar and primary schools is \$19.83, nine cents more than in 1902. This is due to the employment of Professor Cone and to the unexpected increase in evening school expenditures. Supplies for these schools have cost seven cents per pupil more, owing to the unusual expenditures for the Highland and Hodgkins schools,

where several new upper-grade classes have been organized. The increase of seventy-nine cents in the sum paid for care of school buildings is to be charged to the Pennsylvania coal strike of 1902. The entire increase in the per capita cost of the elementary schools is ninety-five cents,—\$25.16 for the year. This includes evening and vacation schools and kindergartens.

For all schools in the city

The per capita cost in 1902 was.....	\$27.57
The per capita cost in 1903 was.....	28.46

An increase of..... \$0.89

fifteen cents of which was for instruction, nine cents for supplies, and sixty-five cents for coal.

The salaries paid at the present time are as follows:—

2 men	\$3,000	1 man, 2 women.....	\$800
2 men	2,000	4 women	775
9 men, 2 women.....	1,900	15 women	725
4 men	1,700	4 women	700
2 men	1,650	200 women	650
2 men	1,500	9 women	600
1 man, 2 women.....	1,200	2 women	500
1 man, 1 woman.....	1,100	2 women	425
1 woman	1,050	2 women	400
7 women	1,000	3 women	350
1 man	950	4 women	275
20 women	900	1 woman	240

On this basis, the total salary list at present is \$236,115.

This does not include sums paid for evening and vacation schools and substitutes.

Stamp Savings. The system of stamp savings, introduced into the schools in September, 1902, by the Somerville Associated Charities, with the permission of the school board, was continued in operation throughout the school year, with results that were surprising to all concerned. The business transacted for the year is as follows:—

Received from sale of stamps.....	\$15,135.59
Received from sale of cards.....	156.53
Deposited in Somerville Savings Bank.....	8,069.85
Value of cards cashed.....	3,152.46
Number of bank books issued.....	2,000

It is difficult to estimate the advantages that have accrued and the lessons of thrift that these figures indicate. The fact that 2,000 children have been led to open an account with a savings bank is sufficient of itself to commend the plan and to justify much of the trouble that has been caused.

Business was resumed on the first of October, the same methods being employed. During the months of October and November there was a very noticeable falling off in the sale of stamps, as compared with the corresponding months of the previous year.

So, too, sewing is taught not simply to give skill with the needle, but to impart valuable educational lessons. The mental qualities of exactness, industry, perseverance, and good taste in regard to shape, fitness, color, and other aesthetic elements are worth development.

I trust the board will find it expedient at least to make a beginning in these lines of work.

In this connection it is worth while, also, to consider the advisability of introducing some form of raffia weaving or basket making or knife work for boys during the sewing hour, if nothing better can be done. Some kind of motor activity is needed to prevent the one-sided training of the faculties of the child. The avidity with which children in the vacation school engage in such occupations, and the skill they show, indicates that a need in their natural development is thus supplied.

Truancy. It is interesting to note that there is no more truancy in Somerville than there was fifteen years ago, when the number of school children was one-half as large. There were in 1903, 525 visits of truant officer to schools; 521 absences investigated; 152 cases of truancy; twenty-four truants arrested; nine sent to truant school; \$629.29 paid for board of truants.

In 1888 there were 164 cases of truancy. The cause of this decrease is to be found in the more vigorous method of dealing with truants. The establishment of the well-managed truant school at North Chelmsford, and the certainty that persistent offenders will be sent to it, has a deterrent influence. Nothing restrains crime like the prompt and impartial execution of the law. Embryo criminals, like the full-fledged, often mistake leniency for indulgence, and very quickly learn to place a fitting estimate upon promises of punishment. Severity in dealing with truancy is the greatest kindness to the offenders themselves and to the schools they corrupt. Due credit should be given to the efficiency of our single truant officer, whose vigilance has been an important factor in correcting the evil. Our use of the public telephones in connection with truancy has proved of great value.

Public Library and Schools. Ten years ago these two great agencies of popular education first came into alliance in our city, an alliance that has grown stronger and more productive of good year by year. There are few, if any, cities in the land in which these two institutions are in closer union. There are none in which the librarian is more studious of the needs of children or more ready to supply them. No library is more accessible, no trustees more generous, no attendants more courteous, no opportunities more extended. Ten years ago a few school children over fourteen years of age had library cards, and drew books from a meagre collection by title only. Now all children, irrespective of age, have access to a well-chosen and extended assortment of books, not a pernicious one in the number, on shelves in a room designed for them and devoted to their exclusive use. Then it was rare to meet a child in the library; now they are

found there by hundreds. Ten years ago the schoolhouses contained nothing but dry text-books. To-day there are 163 libraries, containing 9,042 interesting and instructive books adapted to all ages, distributed over the city in as many schoolrooms. Each schoolhouse is a branch library. Nor do these books gather dust. They are kept in circulation, and libraries are interchanged often enough to maintain interest and variety. Neither is it children alone that are benefited. Whatever books will aid teachers in instruction may be had in numbers for personal or class use. Books are constantly added by request of teachers as aids in either the professional or the practical side of their varied work. The value of all this is immeasurable. It is increasing the ability to read. It is fostering a love of reading. It is developing a taste for good books. It is a silent, but powerful, means of informing, educating, elevating. Its influence reaches far forward into the future of every child, an important element in moulding character.

More books and more reading impose additional obligations upon teachers in directing the choice of books and determining the formation of the taste and desire for what ennobles and enriches, rather than for that which merely amuses or entertains. No book at all is better than a bad book. Ignorance is better than misdirected learning. It is pleasant to feel that many teachers are taking advantage of their opportunities, and are doing all in their power to make books a blessing rather than a bane to those under their influence.

School Hygiene. Everywhere more and more attention is being given to whatever pertains to the health and physical well-being of school children. One-fifth of every city's population congregate daily in detachments of half a thousand each from all sorts of homes, and mingle freely together. No better scheme for carrying contagion could be devised. The sanitary condition of schools thus becomes a question of the health and safety of the public no less than of the individual, and demands utmost care and constant vigilance.

Hence the attention given in schoolhouse construction to ventilation, sanitation, and light. Hence the daily medical inspection of schools. (Paris has had it since 1833.) Hence the quarantining of children from infected homes and the examination of children's sight and hearing. Hence the tendency to revive the old-fashioned outdoor recess. Hence the much more frequent cleansing and purifying of schoolrooms, and the daily disinfection of books and pencils. Hence the re-covering of text-books and the discarding of the badly soiled. Hence the isolation of each child's clothing. Hence the rule in Chicago that every pupil absent four days, from whatever cause, must present a medical inspector's certificate of health. Hence every possible precaution and safeguard to secure ideal hygienic conditions.

Not only do we see all these negative efforts for the prevention of disease, but also equally general movements on the positive side, for the development of physical health and vigor. It is generally recognized that that education is defective which does not provide for distinct physical training in the daily programme. So we see all progressive cities employing directors of physical training with regular courses of scientific instruction. We see the twentieth-century schoolhouses equipped with gymnasiums for girls as well as boys, with baths and swimming tanks, with ample grounds for sports and recreation.

Along all these lines very little has been done in Somerville. Teachers are enjoined to watch vigilantly for signs of danger. The quarantine rules are strictly enforced. Nevertheless, within five years three of our largest schools have been closed for two, three, and four weeks, respectively, on account of scarlet fever or diphtheria. Medical inspection has been only discussed. All but two or three of our school buildings are in good hygienic condition. Very few of them, however, are as clean as a hospital, or a meeting house, or an average home. And yet during this year the schools have been largely free from interruption, save by children's diseases that periodically well-nigh break up primary classes.

On the positive side we are equally deficient. We have no gymnasiums, no school playgrounds, no scientifically directed course of physical training. Fourteen years ago, a supervisor of physical training was employed for a few months, and the Ling system of gymnastics set in operation in the elementary schools. After an interval of five years another supervisor was hired for five months, and a revival of interest resulted. Since then these exercises have been given regularly twice a day in nearly all grades. They have, however, become perfunctory and monotonous. Moreover, while they give a form of muscular exercise, they fail to furnish the relaxation from mental strain which children need at suitable intervals.

In the high schools there is no physical training of any sort. The need is becoming constantly greater as the courses become more exacting. But we have no facilities of any kind. For a few athletic sports, the track, baseball, football and questionable basket ball afford a substitute. But the many who most need the training can only sit by and cheer.

All sides of this important question should be investigated and discussed, and some reform instituted. If medical inspection is unwise or too expensive, if gymnasiums are not to be had, at least may we not follow the example of neighboring cities and employ a director of physical training to plan and execute a scientific system that will produce the results we seek?

Repairs of School Buildings. There is a committee of the school board having this matter in charge. It is a survival of the earlier times, when the school committee employed janitors,

determined the amount of fuel needed, and had full authority regarding school buildings. Since the change in charter placed all these matters in the hands of a commissioner of public buildings, this committee is only an "advisory committee." It makes annually a hurried visit of inspection to as many buildings as can be reached in a day, and turns over to the board the recommendations of principals with its endorsement, the matter being finally referred to the city government. The extent to which these recommendations are carried out is generally contingent on the amount of money available.

To keep a million dollars' worth of public buildings of any kind in proper repair requires a large annual outlay. This is more especially true when these buildings must be kept in perfect condition as to all forms of sanitation. This is the primary aim, to which other repairs are very properly subordinated.

It should, however, be borne in mind that schoolhouses are educational, not only in use, but in character. The school buildings of a city and their surroundings show the thrift and public spirit and aesthetic taste of its citizens. More than this, in their exterior as well as their interior, they are silent educators. If attractive and beautiful, they refine and elevate. It is for this reason they should receive constant care, not simply to keep them from falling into decay. Their adornment and beauty, as well as their comfort and cleanliness, are rights which the children may justly claim.

Most of our schoolhouses are in themselves a proper source of pride, but the surroundings of many of them neutralize this sentiment. The cultivation of a simple grass plot in front of the Cummings and of the Durell schoolhouses this year has added greatly to their attractiveness. Why should not school janitors take as much pains as railroad station agents with the grounds under their charge?

The importance of this side of the matter leads me to call special attention to certain urgent needs. I am aware that it is not possible to accomplish all we wish in a single year, but if effort is focused on a few things each year, before long all we wish may be attained.

1. The English high school is eight years old. Its walls have never been tinted. They are grimy and dust-stained. The enterprise of its pupils has provided \$2,000 for pictures and other decorations. Whatever else is done, the walls and ceilings of this building should be made worthy to receive them.

2. The Davis building needs a thorough interior renovation.

3. The limited yard of the Bennett should be curbed and concreted, and a brick walk should be laid about it.

4. Certain portions of the Knapp yard should be concreted, and the rear of the lot curbed. The interior of the building should be thoroughly renovated.

5. The space in front of the Baxter should be grassed over.

6. Curbing should be provided for the Perry school yard, a brick walk laid, the lawn should be put into condition, and flower beds made.

7. The interior of the Bell school is greatly in need of complete renovation.

8. The Carr school, in many respects the best building in the city, only needs to have the walls in rooms and corridors tinted to be made very attractive.

9. The walls in rooms and corridors of the Morse school should be colored.

10. The interior of the Highland school needs full renovation.

11. What has been said of the English school is true in part of the Hodgkins. All the walls and ceilings urgently demand attention.

I have thus in detail brought these matters before the committee, that its influence may be enlisted early in the year in securing appropriations that will be sufficient to accomplish the more important, if not all, of these improvements.

Administration. I approach this subject with some hesitation because the personal element may seem to enter too largely into it. It will be easy to impugn my motives. Nevertheless, I speak in the interests of the schools, and as far as possible with the personal factor eliminated, and assume the risk of misinterpretation.

Somerville has twice the population, twice as many school children, and twice as many teachers and schoolrooms as it had fifteen years ago. It spends more than twice as much money for schools as it spent in 1889. All this indicates a great increase of work in the administration of school affairs. And yet the administrative and supervisory force remains unchanged. It consists now, as it did then, of the superintendent and his clerk.

The city clerk now has five assistants instead of the one that sufficed fifteen years ago. The city treasurer requires five regular helpers where two formerly were enough, and in busy seasons eight or nine are needed. The same increase is observable in other departments of the city government. These changes result naturally from the growth of the city, and surprise no one.

The present business of the superintendent's office covers three distinct lines of work, usually put in charge of three separate departments in cities as large as Somerville.

First, by the terms of the city charter, the superintendent is made the secretary of the school committee. As secretary, he attends all meetings of the board and of its standing committees, and records and reports their proceedings; he examines and approves all bills, makes up the pay-rolls of bills and of teachers, and keeps a full and detailed account of all expenditures connected with each school; he has charge of all the statistical re-

ports of the schools, preparing and supplying suitable blanks therefor, and making returns to state and national officers.

Secondly, the superintendent acts as supply agent, under the direction of the standing committee on supplies, orders all text-books, stationery and supplies of every sort needed in the schools, and sees that they are duly delivered at the schoolhouses and receipted and cared for; he prepares annual inventories of the 110,000 text-books in use, and lists thereof for the committee, and looks after the rebinding and renewing of all books; and fills the requisitions that are constantly being made for material of one sort or another needed from kindergarten to high school.

Thirdly, the legitimate and most important business of the superintendent is that of the inspection and supervision of the work done in the schools and by the teachers. It has to do chiefly with questions of organization, classification, courses of study, methods of instruction, distribution of pupils, attendance, condition of buildings as to sanitation and convenience, the applications and employment of suitable teachers, assignment of substitutes, direction of teachers' meetings, conferences with parents and teachers, and other duties directly pertaining to the efficiency of the schools. In addition to the day schools, evening and vacation schools demand his attention. He is to direct the truant officer, to see that the school census is properly taken, to issue age and schooling certificates to all between fourteen and twenty-one, and to aid in securing the enforcement of attendance laws.

All these various duties, and others not detailed, naturally increasing from year to year, are being discharged by the present superintendent to the best of his ability, with the aid of his efficient clerk. Whether it is best to continue under existing conditions, or whether the general interests of the schools demand some sort of change, are questions for the decision of the school committee. As bearing on the subject, I call attention to the fact that Cambridge employs a superintendent and an assistant superintendent, who has charge of primary schools; a supply agent, who acts as secretary of the board and has charge of the evening schools, vacation schools, statistical returns, truant officers, and employment certificates. In addition, there are two women clerks and a porter. Springfield, a city of almost the exact size of Somerville, employs a superintendent, an assistant superintendent, a secretary and supply agent, and four women clerks.

A superintendent's time should be spent mainly in school supervision. He should have opportunity of coming constantly in contact with the vital forces of the schools. He should visit the schools and study the systems of other cities. He should attend conferences of his fellow superintendents. If he does this work as it ought to be done, the care of certain material interests of the schools should devolve upon some one else.

By reference to my notes, I find that I have made 274 visits to different school buildings during the year, besides forty-four visits to evening and vacation schools. Some of them have necessarily been brief. Some buildings have been visited more frequently than others. I have not seen every teacher at every visit. To spend an hour with each teacher in the city would consume three months of school time, to the exclusion of all other business. I can sit at my desk and talk without expense to any school principal or teacher in Everett, Malden, or Revere. To confer with principals or teachers in Somerville requires a personal visit to the schoolhouse and an hour's time, more or less. The installation of telephonic communication with every school principal would be a great convenience, and furnish an up-to-date method of doing business. I urge that this be done.

In Conclusion. This report has dealt mainly with the material and financial side of the school question,—the visible and the tangible. It is fitting to ask whether the work done and the results achieved in the schools are commensurate with the expenditures and efforts so generously made. Some facts have already been presented, from which deductions may be properly made concerning this matter.

Regularity and punctuality of attendance are signs of interest on the part of both pupils and parents. They are essential to good work. The harmonious relations between schools and homes are evidence of mutual confidence and co-operation,—vital forces moving towards the same end. The decrease in the number of corporal punishments indicates a growing moral power on the part of teachers and a self-governing power on the part of children. The atmosphere of most schoolrooms shows a spirit of mutual good will and helpfulness in their occupants. All these are necessary elements in the attainment of the ends which we seek.

It would be as interesting as it would be unjust to imitate the custom of early town school reports in which each teacher was mentioned by name, and the character and results of her labors analyzed with all the acumen of an old-fashioned committeeman. Such an attempt would reveal no perfect school, for no one has yet attained the ideal. It would doubtless disclose here and there a perfunctory worker, or an unprofessional teacher engrossed with outside cares, or one temporarily serving in the hope of a change of lot, or an unsympathetic one in whom the milk of human kindness has long since soured, or an ill-tempered one given to intemperate speech, or a self-satisfied one with nothing to learn. All these types would be reflected in their classes. But in the great majority of schoolrooms we should find growing, enthusiastic, faithful teachers and interested, busy, well-behaved children. We should find in the main good teaching, modern methods, freedom from restraint, cheerful, happy faces. We should see constant efforts to stimulate self-activity, to de-

velop power, to foster the spirit of civic loyalty and service, and to lead towards that highest goal, the attainment of noble character.

Much remains undone in the evolution of the ideal system of education. The era of experiment has not yet passed. Strong men are at work upon the great problem, and each year sees constant advance and brings the solution nearer.

At the magnificent meeting of the National Educational Association last summer, President Hyde, of Bowdoin, drew a suggestive picture of "what our educational system would be if it were everywhere as good as the best that has been anywhere attained," or "if it contained all the elements which are now present at isolated points."

He said:—

"We should have small boards of education composed of the best citizens, devoted exclusively to legislation, employing trained experts to carry out their measures. We should have trained teachers, whose attainments are years in advance of the stage at which they are teaching, granted, after careful selection and adequate probation, permanent tenure at salaries proportioned to their efficiency and length of service.

"We should have in the elementary schools kindergarten ideas, manual training, literature, and nature study; yet all in due subordination to the old-fashioned idea that the individual must master with the greatest economy of time the symbols of human knowledge and human intercourse.

"We should have attractive buildings, situated in spacious and beautiful grounds, used both summer and winter, day time and evening, by both children and adults, in the service whenever needed of social as well as of intellectual ends.

"We should have the length of each stage of education determined in part by individual performance, instead of by a rigid time-table imposed on all alike; so that, without lowering the standard of any single stage, a bright scholar might pass through them all in a substantially shorter time."

There are very few of these ideal conditions that we have yet attained. Some are beyond our reach at present. To others we have approximated. All will doubtless be realized in the good time coming. Let us all speed its coming!

For the wise direction and courteous consideration of the members of the board and the hearty co-operation of supervisors, principals, and teachers throughout another year of service, the superintendent offers his grateful acknowledgments.

Respectfully submitted,

G. A. SOUTHWORTH,
Superintendent.

December 28, 1903.

In Memoriam.

At a meeting of the board held October 26, 1903, the following memorial was adopted:—

Professor Benjamin G. Brown, recently deceased, was an honored citizen of Somerville for forty-six years, during all of which time he was connected with Tufts College as instructor in mathematics. Between 1872 and 1894, with patriotic and unselfish fidelity, he served the city for more than seventeen years as a member of the school board. Admirably qualified by education, experience, predilection, and association, he discharged the duties of the office with signal ability and devotion to the highest interests of the schools. Uninfluenced by personal considerations, he brought to the conduct of affairs a clear sense of justice, an independence of judgment, and a wisdom of action that made his services of the highest value to the city.

As a Christian gentleman, affable and courteous; as a friend and associate, loyal and true; as a citizen, interested and active in every good work; and as a public servant, courageous and conscientious in the discharge of duty, he had the respect and confidence of all who knew him.

The school that bears his name will perpetuate the memory of a service and a character worthy of imitation by every citizen who may receive his early training within its walls.

In grateful recognition of his long connection with the educational interests of the city, the school board places on its permanent records this tribute to his memory.

In Memoriam.

At a meeting of the board held November 30, 1903, the following memorial was adopted:—

Dr. Horace Carr White, for nearly thirty years an honored citizen of Somerville, was born in Bowdoin, Me., January 26, 1836, and died in this city November 26, 1903.

From 1881 to 1893, a period of twelve years, Dr. White was an influential member of the school board of this city. His early struggles and training, his wide experience, his practical good sense, his ready tact, his knowledge of the needs of the schools, his largeness of view, his wisdom and independence in action, his strong convictions and high standards, and his unselfish public spirit admirably fitted him to render efficient and valuable service in behalf of the schools. In the discharge of his responsibilities in wider fields to which he was called either by his own patriotic ardor or by the confidence and suffrages of his fellow citizens, he was conspicuous for his unselfish devotion to public interests and his unswerving fidelity to the high trust committed to his charge.

His frank and genial manner, the loyalty of his friendship, his tender and skillful ministrations to the sick and suffering, his warm and helpful sympathy with the needy, the generous impulses of his large heart, and the manliness and purity of his private life won for him the respect and affection of hosts of friends, and make the memory of his character and deeds at once a benediction and an inspiration.

In recognition of his worth as a man, and of his service in promoting the educational, philanthropic and civic interests of Somerville, its school board places upon its permanent records this memorial tribute.

Amendments to Rules. The following amendments have been made to the rules since the last compilation in 1902:—

Section 41 has been amended to read as follows:—

Section 41. He shall, at his discretion, in very stormy or excessively hot or cold weather, strike the signal on the fire alarm bells for the omission of the next session of the schools.

Section 3 has been amended by adding “(20) vacation schools” after the word “supplies.”

The following paragraph has been added to Section 31:—

“The committee on vacation schools shall have in charge the organization and conduct of vacation schools, and the general supervision of the same.”

The following has been substituted for the last sentence in the first paragraph of Section 52:—

The salaries of teachers shall be payable in ten equal installments.

The second paragraph in Section 56 has been changed to read:—

The supervisor of penmanship shall receive a minimum salary of \$1,000, to be increased \$100 annually until a maximum of \$1,500 is reached.

The third paragraph on page 18 has been changed to read:—

The superintendent's clerk shall be paid \$650, to be increased \$50 annually until a maximum of \$750 is reached.

Section 50 has been changed to read:—

Section 50. Teachers of high, grammar and primary schools, and supervisors of departments, and other employees of the board, shall be nominated by the standing committee having charge of the same. Whenever, in the opinion of said standing committee, it is thought best not to nominate any such person for re-election, such person shall be notified by the committee in writing of their decision at least one month before the April meeting of the board. Any appeal by the aggrieved party from this decision to the full board must be claimed in writing within two weeks after receiving the aforesaid notice. Pending such appeal, no new nomination shall be made by the committee.

ORGANIZATION OF SOMERVILLE SCHOOLS.

Information concerning our schools is frequently sought by citizens or by school men in other localities. Following are the principal facts concerning them. Additional knowledge may be gained from the rules and regulations:—

Kindergartens. The city supports four kindergartens, in the Hanscom, Bennett, Baxter and Glines schools. Vaccinated children between four and five years of age are admitted to the kindergarten nearest their residence during the months of September and April, and may remain until the July following their fifth birthday. Sessions from 9 to 12.

Head kindergartners receive \$600. One trained assistant is allowed when the number exceeds thirty, at a salary of \$275, \$350, or \$425, according to experience. Kindergarten teachers give five hours daily to their work, the afternoon being employed in visitation, preparation, mothers' meetings, and the like.

Primary Schools. Our elementary school course covers nine years, the first three of which are spent in primary schools. We have no exclusively primary school buildings, the ninety-one primary classes being distributed among twenty-two schoolhouses.

Vaccinated children five years of age, or who will reach that age on or before the first day of October, are admitted during the month of September only, provided they have never attended school before. Children able to enter existing classes will be admitted at any time. Applications for admission should be made to the principal of the school.

Only trained or experienced teachers are employed, the salaries being \$300, \$400, \$500, \$600, or \$650, according to length of service. Normal training is equivalent to a year's experience, and experience in other places is counted in determining salary.

First-grade teachers, with classes numbering fifty, are allowed an assistant, who is paid \$200, \$275, \$350, or \$425, according to years of service.

Grammar Schools. The grammar classes are found chiefly in eleven large buildings, of twelve rooms each. The course covers six years, and includes only those studies which the statute requires, with the addition of music, sewing, and elementary science.

The salaries of grammar school teachers are the same as those of primary teachers. Masters are paid \$1,900, and their assistants \$725. Other ninth-grade teachers are paid \$700.

Promotions. Promotions in all grades, from the first to the thirteenth, are made in June by the regular teacher and the principal, with the approval of the superintendent and district committee. They are based on the estimate of the pupil's daily work made by the teacher and recorded bi-monthly. An occasional brief, unannounced, written test is a factor in this estimate.

Where there is reasonable doubt of a student's fitness, he may be promoted on a trial of three months. In such cases the parent is notified and kept informed of his child's progress. At the end of this probationary period he may be returned to his former grade, provided it seems for his interests. In 1903 less than ten per cent. of those promoted on trial fell back.

Children capable of more rapid advancement may be promoted one or more grades at any time. Seventy-eight were thus promoted in 1903.

Fitness for graduation or for admission to the high schools is determined in precisely the same way. Diplomas are given in grammar and high schools to those who have satisfactorily completed full courses.

Latin High School. In September, 1895, in the forty-third year of its existence, the Somerville high school was divided, the classical, or college preparatory, departments remaining in the old building, erected in 1872, and the English departments occupying a new building, erected in 1894-'95.

Some facts concerning the Latin school are presented in the following table:—

School Year.	Average Number Belonging.	Number Entering.	Graduates.	Cost of Instruction.	Per Capita Cost.	Teachers.	Pupils to a Teacher.
1895-6	257	69	50	\$11,702	\$45.57	9	28.6
1896-7	262	81	51	11,840	45.19	9	29.1
1897-8	273	86	55	11,921	43.67	9	30.3
1898-9	264	78	51	11,935	45.21	9	29.3
1899-0	245	65	48	12,491	50.98	9	27.2
1900-1	271	104	56	12,676	46.74	9	30.0
1901-2	314	114	56	12,583	40.13	10	31.4
1902-3	358	125	46	14,170	39.58	11	32.5

The object of the school is, primarily, to furnish a suitable preparation for those pupils who desire to pursue either a regular or a special course of study at higher institutions of learning, but the school is open to all pupils who wish to take the courses of study offered.

The regular time for completing the course is four years. Pupils, at the request of their parents, can make the work of each year easier by taking five years for the course. Those who are

capable, and have good reason for shortening the time of preparation are allowed to complete the course in as short a time as their ability will permit.

Graduates of grammar schools are admitted to either high school on presenting a certificate of qualification signed by a master. All other pupils are admitted by an examination in grammar school studies, given usually on the Saturday preceding the opening of the schools in September.

The tuition for non-residents is the per capita cost for the year, payable in advance. The sessions of the school are from 8.30 to 1.30. The salaries paid high school teachers are given on later pages of this report.

English High School. This school was organized in September, 1895. Information concerning it is found in the following table:—

School Year.	Average Number Belonging.	Number Entering.	Graduates.	Cost of Instruction.	Per Capita Cost.	Teachers.	Pupils to a Teacher.
1895-6	456	213	67	\$20,102	\$44.13	21	21.7
1896-7	531	235	70	23,010	43.33	21	25.3
1897-8	535	224	75	24,843	46.44	22	24.3
1898-9	575	231	86	26,159	45.49	23	25.0
1899-0	669	316	83	31,322	46.82	27	24.8
1900-1	691	249	97	32,739	47.35	30	23.0
1901-2	738	294	108	35,989	48.74	34	21.7
1902-3	747	64	135	36,843	49.32	33	22.6

The course of study covers four years. Graduates are admitted to special courses when the conditions are favorable. Candidates for technical and normal schools take specific preparatory work.

The wide range of elective studies is a distinctive feature of the school. The choice of the first year may be one of the following: Latin, French, German, biology (botany and zoology), manual training, and mechanical drawing. To these physics is added for the second year, and chemistry, geology, and astronomy for the third and fourth. After the second year two or more electives may be taken.

During the third and fourth years the student may elect in a business course bookkeeping, commercial arithmetic, commercial law, penmanship, stenography, typewriting; in mathematics, advanced algebra, solid geometry, analytical geometry, and trigonometry; in advanced science, work in botany, zoology, physics, chemistry, and drawing.

Of the fifteen periods of prepared work, the course prescribes ten periods the first year, eleven periods the second year,

seven periods the third year, and seven periods the fourth year. The pupil has the privilege of selecting from the list of elective studies subjects whose recitation periods each week, or their equivalents, when added to the required prepared work, shall equal the necessary fifteen periods.

Concerning admission, sessions, etc., see Latin School.

A simple, healthful inexpensive lunch is served at the recess midway of each session to pupils desiring it.

Manual Training. Three rooms are fitted and equipped in the basement of the English high school for its manual training department. The course includes carpentry, wood-turning and carving, clay modeling, pattern making, moulding, and casting. A fourth room is devoted to mechanical drawing, with a full course. Manual training has not been extended to include grammar schools.

The sub-master in charge of the manual training department is paid \$1,700, and his assistants \$1,650 and \$800.

Sewing. Sewing is taught to the girls in the fifth, sixth, seventh and eighth grammar grades in weekly lessons of one hour each.

Three special teachers are employed at salaries of \$650.

Music. Weekly instruction in music is given exclusively in the high schools, and in part in the three upper grammar grades by a specialist, who is paid \$1,700. The books used are "The Euterpean," "The Cecilian Series of Music and Song," Nos. 2, 3, and 4, and "The Laurel Song Book."

In the six lower grades musical instruction is given by the regular grade teacher, under the supervision of a specialist, who visits each class once every thirteen days. She is paid \$900. The Normal system of music, with its books and charts, is used.

Gymnastics. In elementary grades the Ling system of Swedish gymnastics is practiced daily. No special teacher is employed.

Recesses. The Latin school has two brief recesses, breaking the daily session into thirds. The English school has a single recess at the end of the third period.

The four lower elementary grades have a five-minute recess midway of each session. The five upper grammar grades have no recess, though no unreasonable physical restraint is placed upon a pupil.

No detention of pupils is allowed at noon, and but a half-hour's detention at the close of the afternoon session, "for willful neglect of duty only."

Corporal Punishment. Corporal punishment, "which includes any infliction of physical pain or application of physical force," is not prohibited. It must, however, not be administered until twenty-four hours after the offense, the approval of the principal being first obtained. Each case must be reported in detail to the superintendent. There were 270 cases in 1900, 284 in 1901, 328 in 1902, and 299 in 1903.

Drawing. Two teachers of drawing are employed in the English high school at salaries of \$900 and \$600. In that school freehand drawing is compulsory for first-year pupils, and elective for all others. Drawing is not taught in the Latin school. A few Latin school pupils are taught drawing in the English school.

In the primary grades daily lessons, and in the grammar grades semi-weekly lessons, are given by the regular teacher, under the direction of a supervisor, who visits each class once a month and is paid \$1,000.

The course includes pictorial drawing from nature, models and objects; structural drawing from type solids; decorative drawing, designing, and color work, historic ornament and picture-study. No drawing books are used. Colored pencils are provided in primary grades, and water-colors and brush in grammar grades.

Penmanship. Intermedial slant writing is in use in the elementary schools, the Whitehouse system being used. The supervisor visits each class once in four weeks, and receives \$1,500.

Student Teachers. At the present time one student teacher is employed in the Latin school, and one in the English. Each serves without pay, under the direction of the head master.

The Public Library. The English school has a working library of 1,200 volumes, but it draws constantly on the public library, located in an adjoining building.

For four years there has been a constant use of the library by school children. Circulating libraries of fresh books are in use in the smaller buildings. Books are delivered and collected each week at the large grammar schools. As far as they can, the teachers aid in the selection of books by the children, and the librarian and his assistants cheerfully render all the help in their power.

Evening Schools. An evening drawing school for freehand and mechanical work is open in the Latin schoolhouse from October to April, on Tuesday and Thursday evenings, from 7.30 to 9.30. The principal is paid \$6, and assistants \$3 and \$4 an evening.

Elementary evening schools are open in the Prescott, Bell, Forster and Highland buildings from October 1, on four evenings a week, from 7.30 to 9.30. The length of the term is dependent on the interest and attendance. The course of study followed is that prescribed by the statute. Principals receive \$3 or \$4, and assistants \$2.50, \$2, \$1.50 or \$1 each evening.

Truants. The city employs one active truant officer, who is paid \$1,100 and the board of his horse. Truants are sent to the county truant school at North Chelmsford. There are now five truants from Somerville in the school.

Janitors. These important officers are appointed by the commissioner of public buildings, and are under his direction and that of the school principal. Their salaries will be found on the last page of this report.

Supervision. The superintendent of schools is the executive officer of the board, and upon him devolves the general management of the schools under its direction. He serves as the secretary of the board and as supply agent. His salary is \$3,000, and he is allowed a clerk, who receives \$750. His office is in the city hall annex, and his hours are from 4 to 5 each school day, and from 8 to 9 on Saturday. His office is open from 8 to 12 and from 1.30 to 5 on school days, and from 8 to 10 on Saturday.

The meetings of the school board are held on the last Monday evening of each month, except July, August, and December, at 8.15 o'clock.

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Plan of First Floor

Martha Perry Lowe School
Somerville, Mass.

Walter Tuttlefield
Architect

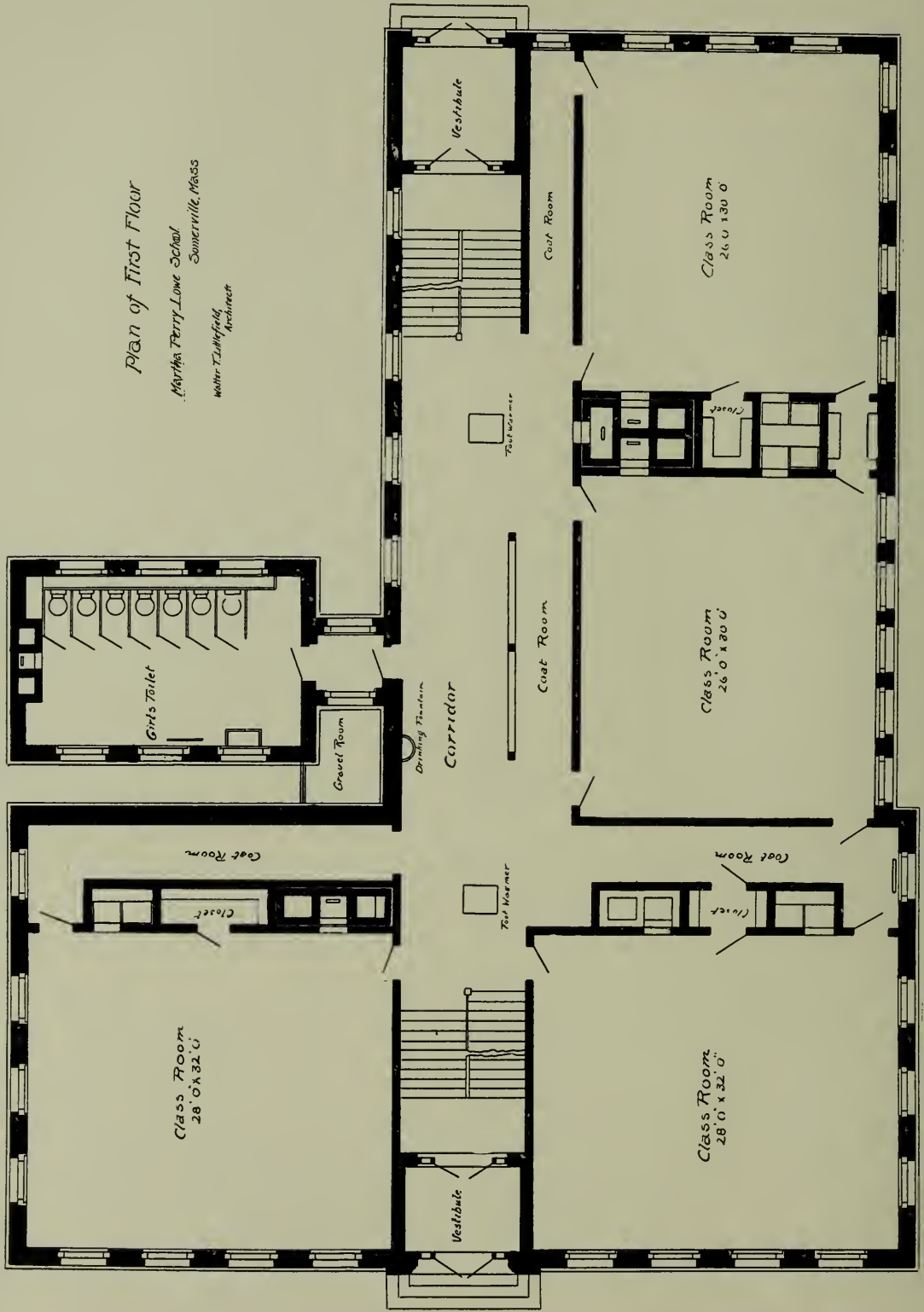


TABLE 1.—SCHOOLHOUSES.

	NAME.	No. of Classrooms.	Size of Lot.	Valuation, including Furniture.	When built.	No. of years used.	Enlargements.
1	Latin High	a4	.....	\$62,000	1871	32	
2	English High . . .	b15	.....	137,600	1895	8	
3	Prescott	12	22,000	66,250	1867	36	
4	Knapp	12	24,517	50,250	1889	14	4 rooms added 1894
5	Pope	12	27,236	80,850	1891	12	
6	Bell	12	22,262	45,250	1874	29	
7	Edgerly	12	24,000	44,250	1871	32	{ 4 rooms added 1882 4 rooms added 1892
8	Glines	14	28,800	80,800	1891	12	5 rooms added 1896
9	Forster	20	30,632	85,350	1866	37	6 rooms added 1899
10	Carr	15	20,450	53,800	1898	5	
11	Morse	12	29,000	46,250	1869	34	6 rooms added 1890
12	Highland	12	23,260	60,250	1880	23	4 rooms added 1891
13	Hodgkins	12	35,034	71,550	1896	7	
14	Bennett	12	17,000	54,800	1902	1	
15	Bingham	8	21,424	32,200	1886	17	4 rooms added 1894
16	Burns	8	16,080	34,600	1886	17	4 rooms added 1899
17	Lowe	8	21,650	51,000	1903	1	
18	Hanscom	6	12,756	49,500	1897	6	
19	Baxter	6	11,000	32,956	1901	2	
20	Perry	6	46,080	37,000	1899	4	
21	Brown	6	20,093	39,690	1901	2	
22	Davis	4	30,155	22,650	1884	19	
23	Cummings	4	11,300	11,850	1884	19	
24	Durell	4	13,883	19,650	1894	9	
25	Lincoln	4	17,662	18,150	1885	18	
	Total	240	.....	\$1,288,496	....	..

(a) Six recitation rooms, a physical laboratory, three teachers' rooms.

(b) A chemical, a physical, a biological laboratory, a recitation room, a lecture hall, drawing room, two teachers' rooms, library, and principal's office. Four manual training rooms and lunch-room in basement.

TABLE 2.—COST OF MAINTAINING SCHOOLS, 1903.

SCHOOLS.	Teachers.	Care.	Supplies.	Total.
Latin High . . .	\$15,175 04	\$1,667 71	\$1,096 10	\$17,938 85
English High . . .	37,257 87	3,248 45	4,808 30	45,314 62
Prescott . . .	10,909 19	1,694 15	657 73	13,261 07
Knapp . . .	10,530 37	2,295 32	717 68	13,543 37
Pope . . .	10,439 44	1,943 32	638 22	13,020 98
Bell . . .	10,514 33	2,447 93	711 50	13,673 76
Edgerly . . .	10,549 58	1,585 01	950 88	13,085 47
Glines . . .	12,784 26	2,425 74	703 73	15,913 73
Forster . . .	16,846 18	2,625 08	1,282 86	20,754 12
Carr . . .	13,176 92	2,243 23	962 40	16,382 55
Morse . . .	11,206 53	1,399 05	848 98	13,454 56
Highland . . .	10,662 65	1,719 59	1,539 01	13,921 25
Hodgkins . . .	11,257 13	1,598 24	1,103 89	13,959 26
Bennett . . .	8,563 42	1,952 21	497 00	11,012 63
Bingham . . .	6,910 12	973 23	826 61	8,709 96
Burns . . .	7,000 17	1,642 34	516 38	9,158 89
Lowe . . .	2,420 48	212 00	630 24	3,262 72
Hanscom . . .	4,902 45	1,103 96	315 22	6,321 63
Baxter . . .	4,684 87	1,326 57	228 84	6,240 28
Perry . . .	4,118 29	1,127 12	236 54	5,481 95
Brown . . .	4,342 57	1,045 74	331 33	5,719 64
Davis . . .	2,939 41	902 79	180 95	4,023 15
Cummings . . .	2,850 29	917 75	197 40	3,965 44
Durell . . .	2,852 16	1,085 00	199 41	4,136 57
Lincoln . . .	3,389 54	760 47	188 18	4,338 19
Evening . . .	6,302 85	1,167 50	340 68	7,811 03
Vacation . . .	377 50		162 64	540 14
Totals . . .	\$242,963 61	\$41,109 50	\$20,872 70	\$304,945 81

TABLE 3.—PER CAPITA COST OF MAINTAINING SCHOOLS, 1903.

SCHOOLS.	Teachers.	Care.	Supplies.	Total.
Latin High . . .	\$40 68	\$4 47	\$2 94	\$48 09
English High . . .	50 62	4 41	6 53	61 56
Prescott	20 54	3 19	1 24	24 97
Knapp	21 85	4 76	1 49	28 10
Pope	20 92	3 89	1 28	26 09
Bell	20 70	4 82	1 40	26 92
Edgerly	20 09	3 02	1 81	24 92
Glines	21 03	3 99	1 16	26 18
Forster	18 70	2 91	1 42	23 03
Carr	18 96	3 23	1 38	23 57
Morse	19 06	2 38	1 44	22 88
Highland	18 77	3 03	2 71	24 51
Hodgkins	20 03	2 84	1 96	24 83
Bennett	19 87	4 53	1 15	25 55
Bingham	18 93	2 67	2 26	23 86
Burns	18 18	4 27	1 34	23 79
Lowe	17 05	1 49	1 77	20 31
Hanscom	17 08	3 85	1 10	22 03
Baxter	18 66	5 29	91	24 86
Perry	15 90	4 35	91	21 16
Brown	15 85	3 82	1 21	20 88
Davis	16 89	5 19	1 04	23 12
Cummings	17 81	5 74	1 23	24 78
Durell	15 33	5 83	1 07	22 23
Lincoln	14 80	3 32	82	18 94
High schools . . .	\$47 28	\$4 43	\$5 32	\$57 03
Gram. and primary . .	19 83	3 77	1 56	25 16
All schools	22 67	3 84	1 95	28 46
Gram. and Prim. with- out evening schools and vacation . . .	19 13	3 65	1 51	24 39
All schools without evening schools and vacation	22 04	3 73	1 90	27 67

TABLE 4.—ANNUAL COST OF MAINTAINING THE SCHOOLS
FOR A SERIES OF YEARS.

Amounts are given to the nearest dollar and include what has been paid for maintaining day and evening schools of all grades.

YEAR.	Average Member- ship.	Instruction and Supervision.	Water and Light.	Heating.	Janitors.	School Supplies.	Total.
1885	4,904	\$79,506	\$728	\$4,965	\$4,000	\$8,449	\$97,648
1886	4,985	83,542	624	4,929	4,194	6,676	99,865
1887	5,198	86,713	765	6,475	5,084	7,526	106,563
1888	5,488	88,967	953	7,121	5,892	7,421	110,354
1889	5,956	96,466	805	6,081	6,448	9,903	119,703
1890	6,486	104,184	1,004	5,586	7,539	10,371	128,684
1891	6,502	114,066	1,047	8,032	8,544	13,899	145,588
1892	7,035	124,232	1,064	7,148	9,794	12,944	155,183
1893	7,217	128,720	1,014	8,312	10,160	10,137	158,333
1894	7,212	132,919	958	9,673	10,686	10,919	165,155
1895	7,617	144,113	1,398	8,796	11,581	15,063	180,951
1896	8,077	161,551	1,469	9,962	14,160	17,601	204,743
1897	8,589	180,222	1,920	10,065	16,251	14,815	223,273
1898	9,085	189,244	2,075	9,767	17,393	14,986	233,465
1899	9,502	197,660	2,472	10,821	17,831	16,131	244,915
1900	9,823	212,863	1,729	10,840	19,236	15,735	260,403
1901	9,991	226,556	1,731	13,723	20,078	18,707	280,796
1902	10,402	234,210	1,803	10,489	20,859	19,386	286,747
1903	10,719	242,964	2,015	18,052	21,042	20,873	304,946

TABLE 5.—ANNUAL COST PER CAPITA OF MAINTAINING SCHOOLS

FOR A SERIES OF YEARS.

[Based on the average membership.]

YEAR.	Instruction and Supervision.	Janitors, Water, Heat, and Light.	School Supply Expenses.	Total.	Assessors' Valuation of City.	Ratio of Cost of School Maintenance to Valuation.
1885	\$16 21	\$1 98	\$1 72	\$19 91	\$24,878,400	.00392
1886	16 76	1 94	1 34	20 03	26,003,200	.00384
1887	16 68	2 37	1 45	20 50	27,469,300	.00388
1888	16 21	2 54	1 36	20 11	28,756,400	.00384
1889	16 20	2 24	1 66	20 10	30,004,600	.00399
1890	16 06	2 18	1 60	19 84	32,557,500	.00395
1891	17 54	2 71	2 14	22 39	36,843,400	.00395
1892	17 66	2 56	1 84	22 06	38,093,100	.00407
1893	17 84	2 70	1 40	21 94	41,773,600	.00379
1894	18 43	2 96	1 51	22 90	44,142,900	.00374
1895	18 92	2 86	1 98	23 76	46,506,300	.00390
1896	20 00	3 17	2 18	25 35	49,013,050	.00418
1897	20 98	3 29	1 73	26 00	50,173,775	.00444
1898	20 83	3 22	1 65	25 70	50,739,700	.00460
1899	20 80	3 28	1 70	25 78	51,202,350	.00478
1900	21 67	3 24	1 60	26 51	52,513,400	.00496
1901	22 67	3 56	1 87	28 10	53,924,200	.00521
1902	22 52	3 19	1 86	27 57	55,485,370	.00517
1903	22 67	3 84	1 95	28 46	56,981,360	.00535

TABLE 6.—AMOUNT SPENT ANNUALLY FOR ALL SCHOOL PURPOSES

FOR A SERIES OF YEARS.

YEAR.	For New Schoolhouses.	For Repairs and Permanent Improvements.	For Maintaining Schools.	Amount Spent for all School Purposes.
1885	\$19,185	\$7,052	\$97,648	\$113,885
1886	15,515	8,706	99,865	114,086
1887	14,839	13,636	106,563	135,038
1888	4,996	13,994	110,354	129,344
1889	20,167	14,225	119,703	154,095
1890	75,775	19,168	128,684	223,627
1891	84,902	14,847	145,588	245,337
1892	12,679	17,734	155,183	176,001
1893	22,809	12,440	158,333	193,582
1894	82,206	44,764	165,155	292,125
1895	87,680	15,651	180,951	284,282
1896	61,016	33,240	204,743	298,999
1897	46,621	20,507	223,273	290,400
1898	49,983	21,274	233,465	304,722
1899	72,516	15,637	244,915	333,068
1900	51,232	21,745	260,403	333,380
1901	49,203	11,000	280,796	340,999
1902	56,501	13,079	286,747	356,327
1903	59,822	12,261	304,946	377,029

TABLE 7.—POPULATION AND SCHOOL CENSUS.

1842 . . .	1,013	1875 . . .	21,594	1900 . . .	61,634
1850 . . .	3,540	1880 . . .	24,985	1901 . . .	63,000
1860 . . .	8,025	1885 . . .	29,992	1902 . . .	65,273
1865 . . .	9,366	1890 . . .	40,117	1903 . . .	67,000
1870 . . .	14,693	1895 . . .	52,200		

SCHOOL CENSUS, 1903.

No. of children between 5 and 15 years of age October 1,

	1903.	1902.	Change.
Ward 1	1,780	1,701	+79
Ward 2	2,533	2,436	+97
Ward 3	947	936	+11
Ward 4	1,006	1,037	—31
Ward 5	1,881	1,880	+1
Ward 6	1,875	1,829	+46
Ward 7	1,400	1,384	+16
Total	11,422	11,203	+219
In public schools	9,685	9,378	+307
In private schools	1,567	1,557	+10
Out of school	375	390	—15
Total at school	11,627	11,325	+302

Number of compulsory school age, 7 to 14:—

	1903.	
According to census, males	3,913	
females	4,079	
		7,992
In public schools, males	3,401	
females	3,540	
		6,941
In private schools, males	491	
females	592	
		1,083
Total		8,024

Number of illiterate minors	71
Children under 7 out of school	283
" between 7 and 14 out on account of sickness	38
" 14 years old at work	54
Total number out of school	375

TABLE 8.—ATTENDANCE OF THE PUBLIC SCHOOLS, 1903.

Rooms Occupied in December.	SCHOOLS.	Annual Enrollment.	Average Membership.	Average Attendance.	Per cent. of Attendance.	No. Attending in January.	No. Attending in December.	Average No. to Classroom in December.
6	Latin . . .	383	373	357	93.7	365	406	
15	English . . .	812	736	699	95.0	753	751	
12	Prescott . . .	726	531	499	93.9	555	547	45.6
12	Knapp . . .	586	482	459	95.2	498	498	41.5
12	Pope . . .	604	499	473	94.9	512	547	46.0
12	Bell . . .	627	508	486	95.6	529	521	43.4
12	Edgerly . . .	621	525	498	93.8	552	526	43.0
14	Glines . . .	808	608	571	94.4	636	615	43.4
20	Forster . . .	1,062	901	844	93.7	908	938	46.9
15	Carr . . .	836	695	645	92.7	706	721	48.0
12	Morse . . .	723	588	538	92.0	564	635	53.0
12	Highland . . .	664	568	537	94.4	592	534	44.5
12	Hodgkins . . .	709	562	535	95.3	609	559	46.4
11	Bennett . . .	628	431	388	90.8	437	467	42.5
8	Bingham . . .	493	365	342	93.5	365	404	50.5
8	Burns . . .	497	385	356	92.4	379	412	51.5
8	*Lowe . . .	124	142	132	92.9		371	46.0
6	Hanscom . . .	435	287	270	94.5	274	334	55.7
6	Baxter . . .	386	251	229	91.3	250	282	47.0
6	Perry . . .	349	259	246	95.0	257	290	48.3
6	Brown . . .	357	274	255	92.9	300	248	41.3
4	Davis . . .	249	174	160	92.1	173	199	49.8
4	Cummings . . .	221	160	147	91.3	162	180	45.0
4	Durell . . .	256	186	174	93.5	194	179	44.7
4	Lincoln . . .	319	229	216	94.7	221	193	48.3
241	Total . . .	13,475	10,719	10,056	93.9	10,791	11,357	46.4
231	Total for 1902 . .	13,116	10,402	9,733	93.5	10,554	10,969	44.6

	1900.	1901.	1902.	1903.
Cases of tardiness . . .	2,759	2,937	3,335	3,428
“ dismissal . . .	1,515	1,746	1,978	1,969
“ corporal punishment	207	284	328	299

*For four months.

TABLE 9.—STATISTICS OF HIGH SCHOOLS FOR SCHOOL YEAR, SEPTEMBER 8, 1902, TO JUNE 30, 1903.

	Latin.	English.
Number of teachers	11	33
Number of days school kept	181	182
Number enrolled	397	832
Average number belonging	358	747
Average daily attendance	344	708
Tardiness	163	221
Dismissals	174	286
In Class I. September, 1902	125	264
June	114	225
Per cent. of loss	9.0	14.8
In Class II. September, 1902	98	223
June	96	184
Per cent. of loss	2.0	17.5
In Class III. September, 1902	89	151
June	83	128
Per cent. of loss	8.0	15.2
In Class IV. September, 1902	56	155
June	53	144
Per cent. of loss	5.0	7.1
Special students, September, 1902	1	20
June	2	11
Total, September, 1902	369	813
June	348	692
Per cent. of loss	6.0	14.8
Number of graduates, male	20	47
Number of graduates, female	26	88
Total	46	135
Average age, male	18-6	18-9
Average age, female	19-3	18-11
Number entering college	36	4
Number of graduates entering technical schools	0	15
Number of graduates entering normal schools	0	5
Cost of instruction	\$14,170 00	\$36,843 25
Cost of supplies and equipment	1,208 62	4,999 20
Total cost	15,378 62	41,842 45
Per capita cost of instruction	39 58	49 32
Per capita cost of supplies and equipment	3 37	6 69
Total cost per capita	42 95	56 01

TABLE 10.—PUPILS BY GRADES, 1903.

SCHOOL.	GRADE.	TEACHERS.			PUPILS.			Average Age.		Never in School Before.	From Other City Schools.	From Other Schools.
		Men.	Women.		Boys.	Girls.	Total.	Years.	Months.			
			Regular.	Assistants.								
Latin	Special . . .	....	....	....	41	43	84	18	1	....	....	5
"	Thirteenth . .	....	....	....	48	47	95	17	3	....	3	3
"	Twelfth . . .	....	....	....	48	58	106	16	2	....	2	5
"	Eleventh . . .	....	....	....	53	68	121	15	2	....	115	5
	Tenth . . .	....	....	....					
	Total . . .	4	9	....	190	216	406	...	....	....	120	18
English	Special . . .	....	....	....	3	14	17	19	6	....	3	2
"	Thirteenth . .	....	....	....	27	85	112	18	6	....	....	2
"	Twelfth . . .	....	....	....	71	109	180	17	4	....	6	13
"	Eleventh . . .	....	....	....	75	115	190	16	7	....	3	9
"	Tenth . . .	....	....	....	122	130	252	15	7	....	246	23
	Total . . .	9	24	....	298	453	751	....	....	....	258	49
	Total high school .	13	33	....	488	669	1,157	....	....	....	378	67
Grammar	Ninth . . .	9	15	....	230	314	544	14	9	....	29	31
"	Eighth . . .	1	18	....	335	416	751	13	10	....	58	64
"	Seventh . . .	....	22	....	460	504	964	13	0	....	190	108
"	Sixth . . .	....	25	1	571	563	1,134	11	11	....	277	94
"	Fifth . . .	....	26	2	598	557	1,155	10	10	....	342	116
"	Fourth . . .	....	27	1	625	557	1,182	9	10	....	266	170
	Total gram-mar . . .	10	133	4	2,819	2,911	5,730	....	....	....	1,162	583
Primary	Third . . .	....	28	1	673	597	1,270	8	9	1	253	204
"	Second . . .	....	29	1	687	662	1,349	7	6	2	264	232
"	First . . .	....	35	4	875	776	1,651	6	3	1,168	137	262
	Total pri-mary . .	....	92	6	2,235	2,035	4,270	....	....	1,171	654	698
	Total gram-mar and primary .	10	225	10	5,054	4,946	10,000	....	....	1,171	1,816	1,281
	Kindergarten .	....	4	4	89	111	200	4	8	211	....	3
	Special teach-ers . . .	2	5	....	....	....	....	....	....	....	....	....
	Grand totals	25	267	14	5,631	5,726	11,357	....	....	1,382	2,194	1,351

TABLE 11.—PUPILS IN HIGH AND GRAMMAR SCHOOLS.

	High Schools.	Grammar and Primary Schools	Kinder- gartens.	Total.
Annual enrollment . . .	1,195	11,878	402	13,475
Average membership . . .	1,109	9,427	191	10,727
Average attendance . . .	1,056	8,838	162	10,056
Per cent. of attendance . . .	95.5	93.9	84.8	93.9
Number cases of tardiness . .	398	3 030	...	3,428
Number cases of dismissal . .	449	1,520	...	1,969
Number cases of punishment . .	...	299	...	299
Membership, January, 1903 . .	1,118	9 481	192	10,791
Membership, December, 1903 . .	1,156	10 001	200	11,357
Average number to a room . .		46.3	50.0	46.4

TABLE 12.—NUMBER OF PUPILS ADMITTED TO GRADE I.
IN SEPTEMBER.

SCHOOL.	1899.	1900.	1901	1902.	1903.	SCHOOL.	1899.	1900.	1901.	1902.	1903.
Prescott . .	53	56	49	69	53	Glines . .	69	70	70	80	65
Hanscom . .	57	56	42	41	75	Forster . .	71	69	80	77	65
Davis . . .	34	27	37	43	50	Bingham . .	60	65	78	84	74
Bennett . .	47	41	41	73	98	Carr . . .	52	50	61	44	59
Baxter . .	.....	.....	34	35	27	Morse . .	66	64	75	76	78
Knapp . . .	63	73	40	38	38	Durell . .	46	34	40	44	33
Perry . . .	51	42	48	42	49	Burns . .	67	64	68	71	57
Pope . . .	37	42	26	37	37	Highland . .	47	77	44	51	.....
Bell . . .	32	43	34	37	36	Hodgkins . .	60	61	70	61	33
Cummings .	37	31	31	39	40	Lincoln . .	44	33	25	35	40
Edgerly . .	32	24	36	51	33	Brown . .	.....	.....	40	56	33
						Lowe . .	.....	.....	.....	.....	95

TABLE 13.—GRAMMAR SCHOOL GRADUATES, 1903.

SCHOOLS.	Number receiving Diplomas.	Number certificated for High School.		Number entering Latin School		Number entering English School		Total.	
		Conditionally.	Unconditionally.	Conditionally.	Unconditionally.	Conditionally	Unconditionally	Conditionally	Unconditionally.
Prescott . . .	34	2	32	..	8	1	16	1	24
Knapp . . .	34	4	30	..	5	2	21	2	26
Pope . . .	23	4	24	..	3	2	10	2	13
Bell . . .	45	..	45	..	7	..	28	.	35
Edgerly . . .	51	..	51	..	12	..	29	..	41
Glinses . . .	31	5	26	..	3	..	19	..	22
Forster . . .	62	8	52	1	19	5	27	6	46
Carr . . .	47	6	39	2	11	4	23	6	34
Morse . . .	35	5	28	1	7	2	14	3	21
Highland . .	65	2	63	..	20	1	23	1	43
Hodgkins. .	52	5	43	1	15	1	18	2	33
Total . . .	484	41	433	5	110	18	228	23	338

TABLE 14.—TRUANT STATISTICS.

	1897.	1898.	1899.	1900.	1901.	1902.	1903.
Number of visits of officer to schools	427	415	538	501	470	435	525
Absences investigated	342	411	448	470	502	384	521
Cases of truancy	110	135	158	105	106	163	152
Truants arrested	10	7	6	6	8	..	24
Sent to truant school	8	6	6	4	9	6	9
Number now in truant school . .	..	9	7	4	10	9	5

TABLE 15.—ATTENDANCE IN ELEMENTARY EVENING SCHOOLS, SEASON OF 1902-1903.

		Prescott.	Bell.	Forster.	Highland.	Total.
Enrolled . . .	Male	58	315	94	52	519
	Female	29	114	44	35	222
	Total	87	429	138	87	741
Ave. membership .	Male	29	151	28	25	233
	Female	21	54	15	17	107
	Total	50	205	43	42	340
Ave. attendance .	Male	24	104	21	22	171
	Female	17	39	10	14	80
	Total	41	143	31	36	251
Per cent. Att. out of No. belonging . . .	. . .	82.0	69.8	72.1	85.7	73.8
Per cent. Att. out of enrollment . . .	. . .	47.1	33.3	22.5	41.4	33.9
Ave. No. of teachers	Male	2	2	2	2	8
	Female	2	14	2	2	20
	Total	4	16	4	4	28
No. of sessions .	. . .	96	96	77	77	346
Teachers, cost of . Janitors, supplies, and light, cost of . . .	. . .	\$725 00	\$2,673 00	\$626 00	\$656 00	\$4,680 00
	. . .	219 77	584 84	217 07	154 93	1,176 61
	Total	\$944 77	\$3,257 84	\$843 07	\$810 93	\$5,856 61
Cost per pupil per evening . . .	. . .	\$0 235	\$0 237	\$0 353	\$0 293	\$0 279
Cost per evening . . .	. . .	9 63	33 94	10 95	10 53	16 93
Cost per pupil in ave. membership . . .	. . .	18 90	15 89	19 61	19 31	17 23
Cost per pupil in ave. attendance . . .	. . .	23 04	22 78	27 20	22 53	23 33

Average attendance:— October . . . 384 November . . . 320
 December . 223 January . 206 February . 176 March . 123

TABLE 15 (Concluded). — Evening Drawing School, Season of 1902-1903.

		Industrial.	Freehand.	Total.
Enrolled	Male	118	43	161
	Female	..	17	17
	Total	118	60	178
Ave. membership . . .	Male	73	21	94
	Female	..	11	11
	Total	73	32	105
Ave. attendance . . .	Male	57	14	71
	Female	..	7	7
	Total	57	21	78
Per cent. attendance out of No. belonging . . .	Male	78.1	66.7	75.5
	Female	..	63.6	63.6
	Total	78.1	65.6	74.3
Per cent. attendance out of enrollment	Male	48.3	32.6	44.1
	Female	..	41.2	41.2
	Total	48.3	35.0	43.8
No. of teachers	Male	4	..	4
	Female	..	2	2
	Total	4	2	6

Cost of instruction	\$1,089 75
Cost of supplies, janitors, and light	241 71

Total cost	\$1,331 46
Cost per capita (average membership)	12 68
Cost per capita (average attendance)	17 07
Number of sessions	47

Average attendance:—

October . . . 109	January . . . 71
November . . . 92	February . . . 65
December . . . 61	March . . . 68

TABLE 16.—GRAMMAR SCHOOL GRADUATES

FOR A SERIES OF YEARS.

YEAR.	Prescott.	Bell.	Forster.	Morse.	Highland.	Elderly.	Pope.	Knapp.	Hodgkins.	Glines.	Carr.	Total.	Average Membership of Grammar and Primary Schools.	Per cent. of Average Membership Graduating.	Entered High School.	Per cent. entering of those Graduating.
1885	51	73	28	30	29							211	4,584	4.60	155	73.46
1886	60	66	26	23	22							197	4,635	4.25	133	67.51
1887	52	67	28	37	37							221	4,849	4.56	146	66.06
1888	54	64	34	41	50							243	5,109	4.75	156	64.19
1889	59	91	48	42	41							281	5,568	5.04	169	60.14
1890	54	106	45	56	57							318	6,062	5.24	184	57.86
1891	44	73	41	55	44	39						296	6,035	4.90	199	67.23
1892	41	36	75	49	45	49	36					370	6,525	5.67	228	61.62
1893	40	60	48	63	67	46	36	39				398	6,674	5.97	240	60.30
1894	39	29	79	66	68	41	35	32				389	6,600	5.89	253	65.04
1895	36	32	58	63	73	42	36	34				374	6,955	5.37	255	68.18
1896	38	34	72	38	70	46	37	35	45	27		370	7,201	5.13	281	76.00
1897	34	39	50	48	41	29	30	25				368	7,602	4.84	273	74.19
1898	36	43	31	46	36	50	36	28	41	35		382	8,029	4.75	281	73.56
1899	37	50	62	48	49	40	34	34	39	37	38	468	8,351	5.60	345	73.72
1900	36	45	43	31	43	47	44	34	42	36	33	434	8,689	4.99	317	73.00
1901	34	38	70	43	72	47	43	38	41	35	36	497	8,811	5.64	372	74.80
1902	41	48	61	45	67	46	35	31	32	40	51	497	9,328	5.33	350	70.40
1903	34	45	62	35	65	51	28	34	52	31	47	484	9,362	5.17	354	73.14
	820	1,039	961	859	976	573	430	402	292	241	205	6,798	128,900	5.29	4,631	68.10

TABLE 17.—ATTENDANCE STATISTICS
FOR A SERIES OF YEARS.

DECEMBER.	ENROLLMENT.	Average Membership.	Average Attendance.	Per cent. of Attendance.	Number of Tardinesses.	Ratio of Tardiness to Average Attendance.
1885	6,276	4,904	4,627	94.4	2,480	0.536
1886	6,350	4,985	4,678	93.8	2,834	0.606
1887	6,605	5,198	4,879	93.8	2,699	0.553
1888	7,262	5,488	5,174	94.0	2,938	0.549
1889	7,757	5,956	5,585	93.8	2,780	0.498
1890	7,878	6,485	6,075	93.6	3,133	0.516
1891	8,510	6,502	6,091	93.7	3,182	0.522
1892	9,120	7,035	6,608	93.9	3,181	0.481
1893	9,632	7,217	6,790	94.1	3,375	0.497
1894	9,387	7,212	6,840	94.8	3,000	0.419
1895	9,913	7,617	7,255	95.2	2,736	0.377
1896	10,582	8,077	7,663	94.9	2,743	0.358
1897	11,293	8,589	8,144	94.8	2,486	0.305
1898	11,577	9,085	8,636	95.1	2,941	0.341
1899	11,975	9,502	8,965	94.3	2,566	0.286
1900	12,345	9,823	9,174	93.4	2,759	0.300
1901	12,499	9,991	9,350	93.6	2,937	0.294
1902	13,116	10,402	9,733	93.5	3,335	0.343
1903	13,475	10,719	10,056	93.9	3,428	0.342

TABLE 18.—MEMBERSHIP, ETC., OF HIGH SCHOOL
FOR A SERIES OF YEARS.

YEAR.	Average Membership all Schools.	Largest Number in High School.	Per cent. of Average Membership of all Schools.	Number of Graduates of High School.	Per cent. of Average Membership of all Schools.
1867	2,157	119	5.51	7	0.32
1868	2,285	141	6.17	17	0.75
1869	2,480	158	6.37	25	1.01
1870	2,639	165	6.25	16	0.65
1871	2,549	161	6.31	33	1.29
1872	2,799	186	6.64	21	0.75
1873	3,217	190	5.91	28	0.87
1874	3,265	198	6.06	26	0.79
1875	3,515	213	6.06	31	0.88
1876	3,712	226	6.09	33	0.81
1877	3,788	227	5.91	37	0.98
1878	3,992	250	6.26	31	0.78
1879	4,169	246	5.90	34	0.82
1880	4,278	254	5.93	27	0.63
1881	4,064	256	6.29	34	0.84
1882	4,263	280	6.57	33	0.77
1883	4,438	278	6.26	43	0.97
1884	4,804	315	6.55	46	0.96
1885	4,904	385	7.85	46	0.94
1886	4,985	374	6.70	56	1.12
1887	5,198	387	7.44	53	1.02
1888	5,488	435	7.92	60	1.09
1889	5,956	444	7.45	67	1.12
1890	6,485	487	7.51	60	0.93
1891	6,502	535	8.23	68	1.05
1892	7,035	577	8.20	80	1.14
1893	7,217	626	8.67	82	1.14
1894	7,274	691	9.50	111	1.52
1895	7,617	775	10.17	92	1.21
1896	8,077	858	10.62	119	1.47
1897	8,589	885	10.31	121	1.59
1898	9,085	890	9.80	130	1.43
1899	9,502	985	10.70	137	1.49
1900	9,823	1,031	10.49	131	1.33
1901	9,991	1,098	10.99	152	1.52
1902	10,402	1,138	10.94	164	1.58
1903	10,719	1,208	11.27	181	1.70

TABLE 19.—PROMOTIONS FOR SCHOOL YEAR ENDING JUNE 30, 1903.

GRADE.	On June Promotion List.	Unconditionally Promoted to Next Grade.	Promoted on Trial.	Left Behind.	Promoted more than One Grade.	Special Promotions between September and June.	Promotees Dropped back after Three Months' Trial.
I	1,478	1,041	69	362	6	1	4
II	1,261	990	98	169	4	2	15
III	1,177	952	97	128	..	3	9
IV	1,181	951	117	109	4	3	10
V	1,123	878	141	104	..	9	15
VI	965	744	126	94	1	7	11
VII	850	590	147	111	2	15	16
VIII	626	449	106	69	2	19	10
IX	495	433	41	21	..	..	4
Total	9,156	7,028	942	1,167	19	59	94

Percentage of Promotions for School Year Ending June 30, 1903.

GRADE.	On June Promotion List.	Unconditionally Promoted to Next Grade.	Promoted on Trial.	Left Behind.	Promoted more than One Grade.	Special Promotions between September and June.	Promotees Dropped back after Three Months' Trial.
I	100	70.4	4.7	24.5	0.4	0.1	0.3
II	100	78.5	7.8	13.4	0.3	0.2	1.2
III	100	80.9	8.2	10.9	....	0.3	0.8
IV	100	80.5	9.9	9.3	0.3	0.3	0.8
V	100	78.2	12.5	9.3	....	0.8	1.3
VI	100	77.1	13.1	9.7	0.1	0.7	1.1
VII	100	69.4	17.3	13.1	0.2	1.8	1.9
VIII	100	71.7	17.0	11.0	0.3	0.3	1.6
IX	100	87.5	8.3	4.2	....	....	0.8
Total	100	76.7	10.3	12.7	0.3	0.6	1.0

TABLE 20.—RESIGNATIONS OF TEACHERS.

SCHOOL.	Teacher.	Resignation Took Effect.	In Service.
Prescott . .	Minerva L. Mills,	June 30.	6 years.
Forster . . .	Winifred S. Clark,	May 10.	6 months.
Burns . . .	Amy W. Woodbury,	June 30.	4 years.
Hodgkins . .	Grace M. Bliss,	"	3 "
Davis . . .	Phoebe M. Pigeon,	"	6 "
Bingham . .	Rose O'Loughlin,	"	7 "
Forster . . .	Rosabelle M. Franklin,	"	10 months.
Forster . . .	Mary C. Strange,	"	4 years.
Carr	Jane W. Leeman,	"	3 "
Highland . .	Cora B. Wheeler,	"	7 "
Highland . .	S. Adelaide Blood,	"	21 "
English High.	Etta A. Seaver,	"	4 "
Bell	Ella N. Jones,	"	1 "
Pope	Ella M. Robinson,	"	4 "
Bennett . . .	Frances A. Wilder,	"	29 "
Highland . .	Mary F. Kelley,	"	1 "
Bennett . . .	Kate L. Wheeler,	"	6 "
Morse	Anna C. Damon,	"	24 "
Bennett . . .	Ida F. Whitney,	"	4 "
English High.	Susanna B. Harrington,	Oct. 30.	3 " 2 mos.
Forster . . .	Edith T. Crabtree,	Nov. 25.	3 " 3 mos.

TABLE 21.—TEACHERS ELECTED IN 1903.

SCHOOL.	Teacher.	Coming From	Began Service.	Salary.
Latin High . .	Edith M. Walker,	Concord, N. H.	Sept. 14.	\$900
English High .	John M. Jaynes,	Somerville.	Feb. 28.	800
Highland . . .	Josephine T. Field,	Malden.	Sept. 14.	650
Lowe	Alice M. Dorman,	Millbury.	"	650
Highland . . .	Lillian F. Richardson,	Ayer.	"	650
Bingham . . .	Eva M. Barrows,	Everett.	"	650
Bingham . . .	Helen L. Galvin,	Everett.	"	650
Bingham . . .	Grace T. Mulcahy,	Norwood.	"	650
Carr	Clara D. Eddy,	Beachmont.	"	650
Burns	Grace M. Bickford,	Revere.	"	650
Highland . . .	N. Irene Ellis,	Revere.	"	650
Hodgkins . . .	M. Emily Hodge,	Everett.	"	650
Lowe	Stella M. Holland,	Winchester.	"	650
Latin High . .	Mabel G. Curtis,	Dedham,	"	900
English High .	Nina A. Cummings,	Haverhill.	"	800
Bell	Eva R. Barton,	Woodbury, Conn.	"	600
Hanscom . . .	Jennie M. Twiss,	Everett.	"	650
Davis	Jennie A. Drew,	Reading.	Oct. 19.	650
Bennett . . .	Nettie L. Fay,	Somerville.	Sept. 14.	650
Bennett . . .	Jeannette B. Snow,	Somerville.	"	650
English High .	Blanche S. Bradford,	Somerville.	Nov. 9.	600
Forster . . .	Grace M. Bothell,	Norwood.	Sept. 14.	650
Morse	Alice B. Hazelton,	Chelsea.	Jan. 4, '04.	650
Highland . . .	Edna F. Grant,	W. Bridgewater.	Sept. 14.	700
Highland . . .	Mary L. Bryant,	Stoneham.	"	650
Lowe	Florence M. Phillips,	Somerville.	"	400

TABLE 22.—LEAVE OF ABSENCE OF TEACHERS.

September 28. Jonathan Leonard, for one year.

TABLE 23. TRANSFER OF TEACHERS.

TEACHERS.	From	To
Alice T. McNamara	Lincoln	Bennett
Naomi E. Stevens	Edgerly	Forster
Almena J. Mansir	Hodgkins	Lincoln
Florence M. Hamlin	Burns	Lowe
May E. Small	Lincoln	"
Jane M. Taaffe	Highland	"
Katherine E. Hourahan	"	"
Clara G. Hegan	"	"
Maude C. Valentine	Hodgkins	"

TABLE 24.—NUMBER OF TEACHERS

FOR A SERIES OF YEARS.

YEAR.	High School.	Grammar School.	Primary School.	Special Teachers.	Assistants not in charge of room.	Men.	Women.	Total.
1885	9	63	48	1	0	10	111	121
1886	9	62	48	1	0	9	111	120
1887	10	64	48	1	0	9	114	123
1888	10	66	52	4	7	9	130	139
1889	10	60	56	4	7	10	127	137
1890	10	78	58	5	7	12	146	158
1891	12	86	63	5	13	12	167	179
1892	13	90	67	5	10	12	173	185
1893	14	88	63	5	19	12	177	189
1894	15	91	66	6	11	12	177	189
1895	28	91	73	5	12	19	186	209
1896	30	102	74	6	14	22	208	230
1897	31	109	85*	6	18	22	227	249
1898	32	112	87*	7	13	23	229	252
1899	36	119	92*	7	9	23	240	263
1900	40	127	96*	7	6	24	249	273
1901	44†	130	94*	7	8	26	257	283
1902	45†	140	91*	7	9	26	266	292
1903	46†	143	96*	7	14	25	281	306

*Four Kindergartners.

†Two Secretaries.

TABLE 25.—BOOKS AUTHORIZED FOR USE, 1903.

For Grammar and Primary Schools.

Carpenter's Geographical Readers.....American Book Co.
 Educational System and the Natural Movement Method of Practical Writing.....Morse Co.
 The Around the World Series of Geographical Readers, Carroll, Morse Co.
 Ten-Cent English Classics.....Educational Publishing Co.
 Five-Cent School Classics.....Educational Publishing Co.

For High Schools.

Gluck auf, Wenkebach.....Ginn & Co.
 A Plane Geometry, Suggestive Method, John A. Avery, Benjamin H. Sanborn & Co.
 Essentials of Ancient History, Wolfson.....American Book Co.
 Ancient History, Botsford.....Macmillan Co.
 Animals, Jordan.....D. Appleton & Co.
 A History of English Literature, Simonds....Houghton, Mifflin & Co.
 A Twentieth Century Dictation Book, Part I., Pitman, Isaac Pitman & Son
 Anno 1870, Liliencron.....D. C. Heath & Co.
 Complete Touch Typewriter Instructor.....Remington Co.
 Plane Geometry, Schultz & Sevenoak.....Macmillan Co.
 Epoch Making Papers.....Macmillan Co.

TABLE 26.—GRADUATION EXERCISES, 1903.**High Schools.**

The graduation exercises of the high schools occurred on Friday evening, June 26, at the First Methodist Episcopal Church, in the presence of a large audience of parents and friends.

The formal address to graduates was given by the Hon. Merrill E. Gates, LL.D., L. H. D., of Washington, D. C.

At the close of the address, the chairman of the school committee, S. Newton Cutler, presented diplomas to the 181 members of the graduating classes.

The graduation exercises were followed by a reception to the graduates and their parents, given by the school board, at which about 600 were present.

ORDER OF EXERCISES.

- S. Newton Cutler, Chairman of School Board, presiding.
 Overture. "Festival March." H. K. Hadley
 Hadley's Orchestra.
1. *Singing.
 Soli and Chorus, "The Heavens Are Telling"—"Creation," Haydn
 Miss Hodges, Messrs. Dunham and Wilson.
 2. Prayer.
 Rev. George Skene, D. D.
 3. Singing.
 Solo and Chorus, "Hear my Prayer" (Motet). Mendelssohn
 Miss Eleanore M. Bragdon.
 4. Address.
 His Honor, Mayor Edward Glines.
 5. Singing.
 Two-part Song, "The Pilot" (Male Voices). Millard
 6. Address to Graduates.
 "The Self and the Citizen."
 Hon. Merrill E. Gates, LL.D., L. H. D., of Washington, D. C.,
 Ex-President of Amherst College.
 7. Singing.
 Unison Solo, "The Lost Chord." Sullivan
 (With Orchestra and Organ.)
 Master Dunham, Organist.
 Orchestration by S. Henry Hadley.
 8. Presentation of Diplomas.
 S. Newton Cutler, Chairman of the School Board.
 9. Singing.
 Soli and Chorus, "Liberty" (Dramatic Scene). Faning
 Bass Solo, Master Wilson.

Argument.—The bitter hatred which had long existed between the two hereditary castes of the Roman people reached a climax during the government of the Council of Ten, of whom Appius Claudius was the chief. Cruelty upon cruelty had deepened, if possible, the hatred of this odious administration, and the people were driven to the verge of desperation, when Appius Claudius tried by force to obtain possession of Virginia, a beautiful maiden of humble birth. This act was the signal for an irresistible outbreak of fury, which resulted in the downfall of the Ten.

* All singing accompanied by Hadley's Orchestra, under the direction of S. Henry Hadley, teacher of music in the schools.

LATIN HIGH SCHOOL GRADUATES.

Florence Ernestine Arnold.	Mildred Whiton.
Florence Erie Backus.	Agnes Woodbridge.
May Honora Baker.	
Margaret May Bertwell.	
Josephine Marcia Briggs.	Fred Harold Baldwin.
Ethel Burroughs.	Reginald Allan Benting.
Mary Gertrude Cameron.	Henry Thorndyke Chickering.
Edith Gordon Carleton.	Charles Sumner Cohen.
Marion Hopkins Farrar.	Alfred William Dickinson.
Stella Reynolds Garton.	James Edward Doughty.
Lucy Augusta Gow.	Alexander Harold Elder.
Olivia Clare Greene.	Edwin Paul Fitzgerald.
Lura Ardell Hutchins.	Richard Henry Goode.
Edna Pollard Jones.	Joseph Gordon Hegarty.
Sarah Willis Kilmer.	Harris Greene Howard.
Almira Fay Leavitt.	William Jennings.
Florence Gertrude Merrill.	Charles Leo McCrossan.
Marion Frances Orne.	Chester Arthur Merrifield.
Florence Harriet Plimpton.	John Francis Mulloney.
Olive Blanche Rice.	Charles Eliot Nichols.
Beatrice Romaine Robertson.	Albion Ross Nickerson.
Jessie Keith Shearer.	Harold Louville Niles.
Alma Drayton Stone.	Chester Rand.
Helen Avis Strout.	Spencer Hannum Taylor.

ENGLISH HIGH SCHOOL GRADUATES.

Alice Rose Alfoncel.	Jessie Eliza Emerson.
Grace Muriel Andrews.	Agnes Teresa Fitzgerald.
Marjorie Wright Armstrong.	Beatrice Maude Fraser.
Norma Isabelle Bake.	Carolyn Genesta Fraser.
Mahala Mildred Bennett.	Edna Lillian Fraser.
Ruth Benton.	Carrie Minette Frost.
Margaret Marie Berglof.	Bessie Graham Fuller.
Hattie Eva Gertrude Boak.	Grace Louise Fuller.
Edith Theadora Bossey.	Grace Lillian Gardner.
Gladys Amelia Budgell.	Berenice Aldana Gilman.
Eleanore May Bragdon.	Alice Gertrude Hale.
Mary Gertrude Canfield.	Florence Ham.
Goldie May Chambers.	Mary Ellen Harrington.
Hannah Louise Chandler.	Ida May Hobbs.
Bertha Lucille Clark.	Ella Beatrice Hodges.
Letitia Frances Clark.	Harriet Elizabeth Howes.
Florence Richmond Colburn.	Ethel Maud Kelley.
Anna Marie Collins.	Gertrude Ethel Kitchen.
Alice Edna Collupy.	Florence Roberts Lafield.
Ethel May Coman.	Elsie Goodwin Lamont.
Ethel May Cook.	Amelia Lucienne Laurent.
Clare Maude Cosgrove.	Esther Victoria Leland.
Mabel Amelia Crankshaw.	Mildred Trull Littlefield.
Rebecca Chase Currier.	Helen Frances Lyon.
Pearl Frothingham Dame.	Margaret Mary MacKay.
Alice Marion Darling.	Margaret Alice MacLean.
Grace Edith Day.	Grace Evelyn Manning.
Katherine Agnes Driscoll.	Julia Ayer Marden.
Mabelle Bertrice Duddy.	Carrie Sybil Marsh.
Mary Louise Dyer.	Emma Mabel McKinley.
Ethel Carson Eastman.	Harriet Gertrude Morgan.

Margaret Nason.
 Marie Louise Paon.
 Alma Clementine Pelton.
 Elizabeth Burnham Pelton.
 Amy Gertrude Pring.
 Edith Marion Reece.
 Ethel Webster Reeves.
 Beulah Louise Rice.
 Idella May Rice.
 Maude Denver Ryan.
 Florence Estelle Sanborn.
 Clara Louise Stickney.
 Alice Parker Stodder.
 Elizabeth Evangeline Sullivan.
 Maud Brown Swasey.
 Eva Frances Taylor.
 Marion Keene Tufts.
 Linnette Bliss Twitchell.
 Sarah Emma Vaughan.
 Sophia Mae Vincent.
 Margaret Whittaker.
 Isabelle Paterson Wilson.
 Belle Olivia Wiswell.
 Isabel Alice Witham.
 Esther Perkins Woodman.
 Gertrude Mabelle Yerxa.

Chester Garfield Ames.
 George Richard Barton.
 Irving Mills Butterworth.
 John Edward Cassidy.
 Emory Leon Chaffee.
 Robert Carlyle Cochrane.
 Arthur Aenos Connelly.
 Walter Lord Corliss.
 George Joseph Cummings.
 George Prentiss Cummings.

Herbert Augustus Currier.
 Louis Ezra Dexter.
 Harry Morton Dix.
 Harry Clifford Fallis.
 Franklin Goddard Fillebrown.
 William Henry Fitzgerald.
 Arthur Washington Freund.
 William Nerverson Goode.
 Frank Laurence Gray.
 Thomas Francis Healy.
 Harold Bell Hodgdon.
 James Phillips Hinckley.
 Lawrence Manning Horton.
 William Irving Kneeland.
 George Chester Lomax.
 James Brower Lowell.
 John Howard Mahler.
 Charles Nelson Manning.
 Arthur Felix Mathieu.
 John Milton McMillin.
 Charles William Nangle.
 Edwin Daniels Philbrick.
 Chester Alanson Polsey.
 Eugene Voorhees Potter.
 William Augustus Sanborn, Jr.
 Henry Clayton Stone.
 Frank Henry Stratton.
 John Appleton Tarbell.
 Henry Taylor.
 Philip Brantford Teakles.
 Charles Augustus Thompson.
 Raymond Frank Tift.
 Frank White Tucker.
 Chester Owen Williams.
 Howarth Duxbury Williams.
 Richard George Woodbridge, Jr.
 William Ulysses Wyman.

TABLE 27.—GRAMMAR SCHOOL GRADUATES.

The lack of a hall large enough to accommodate all the grammar school graduates and their friends compelled us to devote two evenings to the graduation exercises. Accordingly, Monday evening, June 29, and Tuesday evening, June 30, were set apart for the purpose.

The following was the order of exercises on Monday evening:—

Order of Exercises.

S. Newton Cutler, Chairman of School Board, Presiding.

1. Overture.

"Poet and Peasant."

('Cello Solo by Arthur Hadley.)

Hadley's Orchestra.

Suppe

2. *Singing.

Anthem, "Glorious Is Thy Name."

(Orchestration by S. Henry Hadley.)

G. A. Veazie

3. Prayer.
Rev. William Couden.
4. Singing.
Soli and Chorus, "Oh! Thou Whose Power," from "Moses in Egypt." Rossini
5. Address to Graduates.
"Student Life."
Professor Will S. Monroe, Westfield Normal School.
6. Singing.
Patriotic Song, "Columbia." H. K. Hadley
7. Address to Graduates and Presentation of Diplomas to Graduates of the Forster and Carr Schools.
J. Walter Sanborn, Member of School Board, Ward 5.
8. Singing.
Three-part Song, "Rest" (Melodie in F). Rubinstein
(Girls' Voices.)
9. Presentation of Diplomas to Graduates of the Morse, Highland and Hodgkins Schools.
Mr. Sanborn.
10. Singing.
Chorus, "The Flower of Liberty." L. B. Marshall

*All singing accompanied by Hadley's Orchestra, under the direction of S. Henry Hadley, teacher of music in the schools.

Names of Graduates.

FORSTER SCHOOL.

Roger E. Baker.	Joseph V. Pacios.
Anthony J. Bielis.	Edith M. Pearson.
Margarett V. Cadigan.	Paul H. Pearson.
William T. Carroll.	Helen C. Perkins.
Mary G. Cronin.	Dora M. Philpott.
Thomas J. Cudmore.	J. Russell Pitman.
Alice M. Donahue.	Harriet F. Ray.
Florence F. Douglas.	Thomas F. Reardon.
Ralph B. Durell.	William H. Reardon.
Harriet A. Ellis.	Raymond A. Rich
Katherine Foote.	Edna M. Richardson.
Elizabeth G. Garrick.	J. Waldo Ricker.
Hubert C. Grieves.	Lewis J. Ronan.
Ada F. Hallett.	Louise A. Rose.
Isabel E. Hallett.	F. Douglas Salisbury.
Marion L. Hanscom.	Kendal W. Sawyer.
Grace V. Harrington.	Marguerite A. Sharp.
W. Arthur Higgins.	Edna M. Sias.
H. Mildred Holden.	Alice C. Sullivan.
J. Frederick Holmes.	Mary L. Sullivan.
Merton W. Hopkins.	Irving R. Taylor.
Lillian M. Jennings.	Nellie B. Thomas.
Rose E. Kane.	Rufus S. Tucker.
Norman S. Kennard.	Ruth D. Tyler.
Irene M. Kimball.	Clara R. Ulm.
Gertrude C. Macdonald.	Gustav F. Virchow.
William H. Mahoney.	Max L. Waterman.
Elizabeth T. McKenna.	Harriet C. Wedgwood.
Dorothy B. Mercer.	Ralph E. Whitman.
Alton L. Miller.	Prescott F. Wild.
Bessie G. Newell.	Bertha T. Willoughby.

CARR SCHOOL.

Edmund Augustus Arnold.
 Arthur H. T. Bezanson.
 Herbert E. Blaisdell.
 Laurence H. Bowlby.
 Richard A. Brennan.
 Helen Louise Busteed.
 Marion Gertrude Cleverley.
 Martin D. Coffey.
 Susan Comrie.
 Gertrude A. Cox.
 Dorothy Crane.
 Ruth M. Dupee.
 Theda E. Fleming.
 James Gallerina.
 Charlotta F. Hall.
 H. Louise Harrington.
 Margaret W. Harper.
 Percy N. Hartford.
 Alice M. Higgins.
 Carrie S. Higgins.
 Miriam Fosdick Hills.
 Ellen R. Holmes.
 Marion Hood.
 Leila Jenkins.

Ethel Sylvester Kingman.
 George Mahoney.
 Frances F. McGarr.
 Alice A. Lillian McKenzie.
 Daisy Mitchell.
 Georgie C. Morgan.
 Walter F. Morgan.
 Richard L. Powers.
 Charles H. Pratt.
 Alice Elmore Putney.
 Nathaniel P. Rice.
 Hjalmar E. Ritzman.
 J. Gordon B. Robertson.
 Louis E. Rose.
 Mabel Saunders.
 Annie E. Smith.
 William J. Rockwood.
 Alice L. Soderquist.
 Frederick William Thiesfeldt.
 Charles M. Webber.
 Gertrude A. H. Weeks.
 James H. White.
 Carrol N. Whitney.

MORSE SCHOOL.

Arthur R. Bagster.
 Albert J. Berry.
 Edith H. Bradford.
 Corril B. Bridges.
 Elysabeth L. Budgell.
 Ralph I. Carlton.
 Frank M. Carter.
 Marguerite S. Chamberlain.
 Florence J. Derby.
 Ellen M. Drew.
 Eva F. Durell.
 Florence A. Fisher.
 Grace E. Gridley.
 Maude E. Hapgood.
 Bismarck Henderson.
 Ralph W. Hopkins.
 Martha Larsen.
 Lawrence K. Marshall.

Harry Miller.
 Harold P. Mitchell.
 Pierre F. Nangle.
 William H. Nolan.
 William L. Osborn.
 Joseph Palais.
 Herman A. Pauly.
 C. Lawrence Peterson.
 Martin E. Powers.
 Effie M. Ritchie.
 Calvin W. Simonds.
 Gertrude A. Skelton.
 Addie E. Story.
 Charles M. Sullivan.
 Gladys E. Washburn.
 Walter R. West.
 Louis D. Wheeler.

HIGHLAND SCHOOL.

Carl H. Allen.
 Ralph D. Allen.
 W. Earl Atkinson.
 Henry J. Baldwin.
 Ethel M. Ball.
 Walter C. Belyea.
 Alice M. Bowditch.
 Effie M. Boynton.
 Lewis Buckman.
 Grace M. Burt.
 Eric A. G. Carlson.
 Bertha M. Chandler.

Annie E. Chatfield.
 Elsie F. Clark.
 Catherine A. Comey.
 Ida M. Conkey.
 Louis B. Connelly.
 Joy St. J. W. Conrad.
 Mary E. Coughlin.
 Lillian M. Currier.
 Susie A. Cutler.
 A. Frances Daniel.
 Ruth F. Derby.
 Charles W. DeWolf.

Margaret H. Driscoll.
 Robert S. Easter.
 Mary L. Ennis.
 Celia Epstein.
 E. Hazel Fallis.
 Ruth I. Fillmore.
 Beulah R. Fuller.
 Bernard V. Gillooly.
 Annie Golden.
 Edith M. Goodell.
 Edna L. Goodwin.
 Emma M. Graves.
 Ruth M. Graves.
 Charles P. Hilliard.
 Miriam P. Hinckley.
 Helen H. Holmes.
 Lewis L. Hoyt.
 William H. Jordan.
 David J. Kelley.
 T. Olof Kindlund.
 Ernest L. Langley.

Harry B. LeCain.
 Grace R. Lefebvre.
 Mabel L. Leonard.
 Marguerite D. Lynam.
 Elsie M. Mahany.
 Harold W. Marsh.
 Edna W. McIntosh.
 Jessie M. Parker.
 Nora T. Robinson.
 Rosie E. Salsman.
 Fred B. Skillin.
 Fred H. Smith.
 Shirley A. Stevens.
 Martha B. Thomas.
 Waldo E. Tufts.
 Lydia A. Tufts.
 Elaine W. Ward.
 E. Valentine T. Wetmore.
 Agnes J. Wheeler.
 Marion F. Wilson.

HODGKINS SCHOOL.

Arthur A. Austin.
 Laura Barton.
 Sadie L. Bridges.
 Paul E. Bryan.
 Florence M. Burke.
 Rosamond E. Capen.
 Ruth A. Carter.
 Elma F. Cartwright.
 Pauline T. Collupy.
 Edith W. Dalton.
 Ronald F. Davis.
 John M. Donovan.
 Esther H. Dunning.
 Ona A. Evans.
 Elodie M. Fales.
 John E. Goodwin.
 Hayes E. Gorton.
 Howard A. Gray.
 Edward E. Haradon.
 James B. Harmon.
 Ethel M. Hartwell.
 Sarah R. Hatch.
 John L. Holmes.
 Blair W. Horsman.
 Anna F. Jones.
 Richard R. Lamont.

Leslie W. Lawrence.
 Ethel M. Libby.
 Blanche A. Lippe.
 Charles E. Merrill.
 Frank W. Merrill.
 Inez F. Merrill.
 Marion Merrill.
 Philip A. Merrill.
 Hazel R. Mills.
 Howard B. Northrop.
 Carrie L. Noyes.
 Lena G. Pearson.
 Hattie L. Pipe.
 James L. Powers.
 Emily M. Raffelli.
 Thomas S. Robertson.
 Margaret A. Russell.
 Benjamin H. Shute.
 Thornton A. Snow.
 Ruby M. Stone.
 George W. Wallstrom.
 Gladys P. Weissbach.
 C. Austin Wheeler.
 Emily L. Wilson.
 Thomas G. Wilson.
 Allen C. York.

The following was the order of exercises for Tuesday evening:—

Order of Exercises.

S. Newton Cutler, Chairman of School Board, Presiding.

1. Overture.

"A Morning, Noon and Night in Vienna."
 ('Cello Solo by Arthur Hadley.)
 Hadley's Orchestra.

Suppe

2. *Singing.
Anthem, "Glorious Is Thy Name."
(Orchestration by S. Henry Hadley.) G. A. Veazie
3. Prayer.
Rev. Lewis V. Price.
4. Singing.
Soli and Chorus, "Oh! Thou Whose Power," from "Moses
in Egypt." Rossini
5. Address to Graduates.
"Americans, Old and New."
Professor Charles D. Adams, Dartmouth College.
6. Singing.
Patriotic Song, "Columbia." H. K. Hadley
7. Address to Graduates and Presentation of Diplomas to Gradu-
ates of Prescott, Knapp and Pope Schools.
Edward J. Flynn, Member of School Board, Ward 2.
8. Singing.
Three-part Song, "Rest" (Melodie in F). Rubinstein
(Girls' Voices.)
9. Presentation of Diplomas to Graduates of Bell, Edgerly and
Glines Schools.
Mr. Flynn.
10. Singing.
Chorus, "The Flower of Liberty." L. B. Marshall

*All singing accompanied by Hadley's Orchestra, under the direction of S. Henry Hadley, teacher of music in the schools.

Names of Graduates.

PRESCOTT SCHOOL.

Lydia M. Austin.	Rose C. McPherson.
Mabel P. Banks.	Ella M. Mullen.
William A. Bishop.	Albert H. Pettengill.
Almer E. Blunt.	Irving Poole.
Charles E. Cook.	Cora H. Sargent.
Annie M. Corkery.	Anna E. Smith.
Jean D. Cox.	Henry J. Smith.
Tenney L. Davis.	Clinton H. Stevens.
Frank Dresser.	Luella M. Strout.
Blanche L. Dunbar.	Antony C. Thomann.
Chester L. Foster.	Charles H. Thompson, Jr.
Marion A. Hanson.	Frank W. Waite.
Mary T. Hayden.	Louis A. Walker.
Susie T. Keaney.	Frank Waugh.
Pauline M. Lauman.	Nathan Whitehouse.
Harry L. Loftus.	Raymund Wiley.
Bertha E. Lord.	Laurence L. Winship.

KNAPP SCHOOL.

Jennie M. Blois.	Helen M. Fitzpatrick.
Isabelle M. Brunton.	Irene M. Floyd.
Edward R. Callow.	Vivian C. E. Freese.
Lotta L. Cole.	Albert A. Graustein.
Edward F. Commins.	Irene K. Griffin.
Edgar B. Cox.	Margaret M. Grimshaw.
M. Elizabeth Delay.	Mildred G. Hall.
Einar Evenson.	Fred W. Hart.
Francis P. Fallon.	Margaret M. Higgins.

Gertrude A. Holt.
G. Lillian C. Larsen.
Margaret L. Mack.
Anna F. Malone.
Stephen J. Malone.
Mary L. McGovern.
James F. J. McGuire.
Elizabeth R. McLane.

Annie M. Morrison.
Ellen F. O'Brien.
Elizabeth A. O'Riley.
Alice E. Purdy.
Dagmar E. Quarnstrom.
Lillian M. Quinlan.
Loretta G. Sullivan.
Agnes L. Thompson.

POPE SCHOOL.

Ida F. Abbott.
Florence E. Adams.
Maude O. Bake.
Nellie B. Beaudet.
John F. Buckley.
Frederick J. J. Carr.
Katharine M. Colbert.
Agnes A. E. Colgan.
W. Parker Coombs.
Anna C. Gould.
Percy A. Hogan.
William R. Hunter.
Edythe E. Johnson.
Evelyn E. Lowden.

Rose Mary Mallahan.
Walter E. Merrill.
Anna E. Miller.
Roy A. Noble.
Edward V. O'Connell.
Emma J. Quest.
Alice Maude Ray.
William G. Ryan.
Louis Francis Sonia.
Florence M. Sturtevant.
Carl Hosmer Ward.
Ethel M. G. Warren.
Addie M. Wentworth.
Alvara B. Wentworth.

BELL SCHOOL.

Lucy A. Abrams.
Alma A. Andreen.
Velma H. Arens.
Marguerite B. Bartlett.
Rosie J. Brodil.
George Burke.
Charles T. Cavanagh.
William J. Cavanagh.
Clorinda M. Chovin.
Henry G. Doyle.
Marguerite Eldridge.
Paulina R. F. Felch.
Leroy G. Fitzherbert.
Ellen M. Ford.
F. Carlton Gorman.
Julia R. Hall.
David J. Harrigan.
William T. Henderson.
Edith J. Hills.
Charles A. Johnson.
Lester A. Leavitt.
John H. LeGallee.
Agnes C. Loth.

Walter. Morrison.
Jessie M. Nichols.
Eva G. Potter.
Lawrence W. Richardson.
John W. Robbins.
Avelon G. Russell.
Willard B. Savary.
Arthur J. Scanlan.
Marion L. Schaefer.
Ralph D. Smart.
Jessie W. Smith.
Maude E. Smith.
Mildred G. Snow.
Thomas J. Stevenson.
Edna M. Sturtevant.
S. Lillian Sullivan.
Bede M. Swanson.
John J. Thorpe.
Mabelle A. P. Trask.
Sophia E. Turner.
Max C. VerWiebe.
Dorothy V. Nichols.

EDGERLY SCHOOL.

Eleanor M. Adrian.
Florence E. Austin.
Albert H. Benson.
Jennie E. Blenkhorn.
Clara B. Braxton.
Ruth E. Burnham.
Edna T. Burns.

Edward H. Cameron.
Lloyd C. Conant.
Ruth Conover.
Gertrude H. Conway.
Joseph H. Cooper.
Mabel G. Cooper.
Alice M. Doughty.

Annie F. Dunton.
W. Chester Frizzell.
Grace H. Glover.
Susan C. Gould.
G. Lester Hale.
George A. Hall.
G. Roy Hamilton.
Rachel M. Hammond.
James E. J. Hatchell.
Elizabeth L. Kimpton.
Jasper A. Lane.
Hattie M. Linnell.
Hattie L. Ludwig.
Madeleine V. Martis.
K. Josephine McCarthy.
Alice M. McKenney.
Charles S. Merrill.
Laura A. Miille.
M. Hazel Moulton.

John M. Nangle.
Edwin L. Nelson, Jr.
John H. Phelps.
Gertrude Pickering.
E. Bernard Putney.
Everett B. Ralston.
Ernest F. Rankin.
Arthur T. H. Ransom.
Bertha W. Richards.
Mae L. Scott.
Lorenzo F. Sewall.
Lucilia Silva.
Edith F. Stodder.
Russell B. Spear.
Warren W. F. Timmons.
Marion E. Watson.
Laura A. Webber.
Lewis F. Willard.

GLINES SCHOOL.

Orin Andrews.
Sanford L. Bryan.
Stanley T. Cobb.
Florence H. Crispin.
Francis J. Daley.
Harry S. Day.
Mattie R. Dowd.
Benjamin A. Downs.
Nettie M. Duddy.
Alice E. Foster.
Kenneth Freeman.
Charles R. Gilley.
Ida Glassman
Helen G. Hallett.
Edna H. Harrison.
Kenneth P. Hill.

William H. J. Hooper.
Gertrude B. Hughes.
James P. Hurley.
Mary A. Leahy.
Albert J. Macdonald.
William A. Macdonald.
Walter T. McKinley.
Ralph S. Nealy.
Arthur W. Noble.
Joseph A. Parant.
Ralph H. Riddell.
Margaret A. Sargent.
E. Vaughn Weeks.
Flora S. Wheeler.
Walter L. Wheeler.

TABLE 28.— ORGANIZATION OF SCHOOL BOARD, 1904.

School Committee.

FREDERICK A. P. FISKE,	. . . . .	Chairman
DANA W. BENNETT,	. . . . .	Vice-Chairman

MEMBERS.

		Term expires January.
WARD ONE.		
GEORGE S. POOLE,	46 Mt. Vernon street.	1905
HENRY F. CURTIS,	145 Perkins street.	1906
WARD TWO.		
EDWARD J. FLYNN,	273 Washington street.	1905
DANIEL H. BRADLEY,	19 Concord Ave.	1906
WARD THREE.		
DANA W. BENNETT,	41 Putnam street.	1905
GEORGE E. WHITAKER,	75 Walnut street.	1906
WARD FOUR.		
WILLIAM P. JONES,	13-A Maple avenue.	1905
GEORGE W. W. WHITING,	282 Broadway.	1906
WARD FIVE.		
J. WALTER SANBORN,	183 Central street.	1905
QUINCY E. DICKERMAN,	85 Central street.	1906
WARD SIX.		
CHARLES H. HOOD,	2 Benton road.	1905
FREDERICK A. P. FISKE,	44 Cherry street.	1906
WARD SEVEN.		
HENRIETTA B. H. ATTWOOD,	18 Herbert street.	1905
GEORGE C. MAHONEY,	415 Highland Ave.	1906

The committee holds its regular meetings on the last Monday evening of each month, except July, August, and December, at 8.15 o'clock. The last meeting of the year is held on the Friday next preceding the first Monday of January.

Superintendent of Schools,

GORDON A. SOUTHWORTH.

Office: City Hall Annex, Highland avenue.

Residence: 40 Greenville street.

The superintendent's office will be open from 8 to 12 and from 1.30 to 5; Saturdays, 8 to 10. His office hours are from 4 to 5 on school days and 8 to 9 on Saturdays.

Office telephone, 314; house telephone, 12.

Cora S. Fitch, Superintendent's Clerk, 69 Walnut street.

TABLE 28.—Organization of School Board, 1904.—Concluded.**Standing Committees.**

High Schools.—Whiting, Poole, Flynn, Bennett, Dickerman, Fiske, Mahoney.

LATIN, ENGLISH.

District (or Ward) I.—Poole, Curtis.

PRESCOTT, HANSCOM, DAVIS, BENNETT.

District (or Ward) II.—Flynn, Bradley.

KNAPP, PERRY, BAXTER.

District (or Ward) III.—Bennett, Whitaker.

POPE, BELL, CUMMINGS.

District (or Ward) IV.—Jones, Whiting.

EDGERLY, GLINES.

District (or Ward) V.—Sanborn, Dickerman.

FORSTER, BINGHAM.

District (or Ward) VI.—Hood, Fiske.

CARR, MORSE, DURELL, BURNS, BROWN.

District (or Ward) VII.—Mrs. Attwood, Mahoney.

HIGHLAND, HODGKINS, LINCOLN, LOWE.

Additional School Accommodations.—Hood, Poole, Bradley, Bennett, Jones, Dickerman, Mahoney.

Evening Schools.—Dickerman, Bennett, Fiske.

Finance.—Bennett, Sanborn, Hood.

Industrial Education.—Curtis, Whitaker, Mrs. Attwood.

Music.—Whitaker, Poole, Mrs. Attwood.

Private Schools.—Bradley, Hood, Whiting.

Repairs of School Buildings.—Mahoney, Bradley, Jones.

Rules and Regulations.—Jones, Curtis, Fiske.

Salaries.—Poole, Whiting, Sanborn.

Supplies.—Sanborn, Whitaker, Hood.

Text-books and Courses of Study.—Flynn, Curtis, Whitaker, Jones, Sanborn, Fiske, Mrs. Attwood.

Vacation Schools.—Mrs. Attwood, Flynn, Dickerman.

Note.—The member first named is chairman.

TABLE 29.—TEACHERS IN SERVICE JANUARY, 1904.

NAME.	Residence.	Salary.	Beginning of Service.
LATIN HIGH SCHOOL.			
GEORGE L. BAXTER, Head Master,	27 Warren ave.	\$3,000	1867
Frank M. Hawes, Master,	257 School st.	2,000	1879
Charles T. Murray, Sub-Master,	28 Franklin st.	1,700	1887
George M. Hosmer,	13 Arlington st.	950	1901
Sarah W. Fox,	99 Irving st., Cambridge.	1,200	1868
Frances W. Kaan,	123 Central st.	1,100	1882
Eudora Morey,	26 Batavia St., Boston.	900	1882
Mrs. Lena Gilbert,	51 Elmwood st.	900	1893
Florence H. Paul,	63 Prescott st.	900	1894
Grace T. Pratt,	62 Waverly st., Roxbury.	900	1901
Edith M. Walker,	9 Loring st.	900	1903
Mabel G. Curtis,	829 Boylston st , Boston.	900	1903
A. Florence Moulton,	54 Putnam st.	650	1900
ENGLISH HIGH SCHOOL.			
CHARLES T. C. WHITCOMB, Head Master,	44 Walnut st.	\$3,000	1895
John A. Avery, Master,	22 Dartmouth st.	2 000	1895
Everett W. Tuttle, Sub-Master,	471 Mass. ave., Boston.	1,700	1895
Harry L. Jones, “	157 Highland ave.	1,650	1896
Howard W. Poor, “	27 Mt. Vernon st., Reading.	1,650	1896
George W. Earle, “	79 Boston st.	1,700	1900
Harry F. Sears, “	44 Orris st., Melrose Highlands.	1,500	1901
Charles F. Abbott, “	45 Greenville st.	1,500	1901
John M. Jaynes,	34 Putnam st.	800	1902
A. Marion Merrill,	Hotel Woodbridge.	1,200	1895
A. Laura Batt,	62 Highland ave.	900	1895
Esther Bailey,	1172 Massachusetts ave., Arlington.	900	1894
Lucy Ingram,	19 Aldersey st.	900	1895
Caroline A. Marsh,	6 Essex st.	900	1894
Eda L. Nichols,	66 Putnam st.	1,050	1895
M. Helen Teele,	11 Jason st., Arlington.	900	1895
Clara A. Johnson,	177 Central st.	900	1897
Mary F. Carrick,	271 Medford st.	900	1898
Bertha P. Marvel,	19 Highland ave.	900	1899
Hila Helen Small,	232 Highland ave.	1,000	1899
Harriet E. Tuell,	13 Greenville st.	1,000	1899
Helen L. Follansbee,	20 Montrose st.	1,000	1900
Elizabeth Campbell,	9 Hamlet st.	900	1902
Grace E. Lord,	133 Massachusetts ave., Cambridge.	800	1902
Bertha P. Chase,	6 Highland ave.	900	1901
Bessie D. Davis,	13 Mt. Vernon st.	900	1900
Helen E. Harding,	60 Orchard st., No. Cambridge.	900	1901
Ella D. Gray,	147 Walnut st.	900	1901
Nina A. Cummings,	47 Wallace st.	800	1903
Bessie L. Forbes,	92 Orchard st.	700	1899
Bertha A. Raymond,	16 Hillside pk.	600	1900
Blanche S. Bradford,	161 Summer st.	600	1903
Amy L. Cole, Sec'y and Lib.,	13 Lincoln st.	600	1901

TABLE 29.—Teachers in Service January, 1904.—Continued.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
PRESCOTT.				
9	SAMUEL A. JOHNSON, Master,	91 Perkins st.	\$1,900	1893
9	Anna M. Bates,	102 Bridge st., Salem.	725	1874
8	Elizabeth M. Warren,	64 Vinal ave.	650	1897
8	Emma M. Cate,	15 Fletcher st., Winchester.	650	1882
7	Abbie A. Anderson,	10 Pearl st.	650	1878
6	Amelia I. Sears,	Melrose Highlands.	650	1873
5	Susie M. Hosmer,	29 Otis st., Melrose.	650	1899
5	Catherine T. Brown,	61 Myrtle st.	650	1868
4	Clara Taylor,	36 Flint st.	650	1871
3	Elizabeth L. Marvin,	21 Lincoln st.	650	1898
2	Louise E. Pratt,	21 Lincoln st.	650	1889
1	Martha L. Hale,	144 Highland ave.	650	1898
1	Mattie L. Littlefield,	65 Glen st.	650	1897
SANFORD HANSCOM.				
5	LINA F. BATES, Principal,	52 Highland ave.	\$775	1897
4	Gertrude D. Goodale,	101 Pearl st.	650	1902
3	Florence A. Colgate,	92 Glen st.	650	1901
2	Helen G. Frye,	43 Sargent ave.	650	1898
1	Lina E. Dill,	34 Chauncey ave.	650	1897
1	Jennie M. Twiss,	61 Hall ave., Everett.	650	1903
K'g'n	Caroline Boardman,	62 Highland ave.	600	1897
Ass't	Etta M. Cushing,	3 Thurston st.	425	1896
DAVIS.				
4	MARY A. HOLT, Principal,	72 Boston st.	\$725	1899
3	Jennie A. Drew,	50 Bancroft ave., Reading.	650	1903
2	Carrie T. Lincoln,	41-B Franklin st.	650	1893
1	P. A. Merritt,	96 Oxford st.	650	1885
Ass't	Alice M. Saben,	110 Pearl st.	275	1903
CLARK BENNETT.				
5	ANNIE E. McCARTY, Principal.	18 Quincy st.	\$1,000	1880
Ass't	Kate B. Gifford,	72 Berkeley st.	650	1902
4	Jeannette B. Snow,	6 Hillside pk.	650	1903
3	Agnes S. Campbell,	11 Columbus ave.	650	1899
3	Alice T. Mc Namara,	29 Lee st., Cambridge.	650	1895
2	Katharine C. Connolly,	21 School st.	650	1897
2	Nettie L. Fay,	28 School st.	650	1903
2	Isadore E. Taylor,	36 Flint st.	650	1883
1	Bertha M. Martindale,	96 Glen st.	650	1902
1	Miriam Cavanagh,	10 Grand View ave.	650	1893
1	Carrie L. Bliss,	4 Park ave.	650	1870
K'g'n	Caroline G. Baker,	40 Benton road.	600	1895
Ass't	Lillian M. Hopkins,	50 Craigie st.	350	1903
GEORGE L. BAXTER.				
5, 6	HELEN TINCKER, Principal,	63 Columbus ave.	\$775	1872
4	Catherine E. Sweeney,	633 Broadway.	650	1901
3	Elizabeth E. Carr,	Danvers.	650	1902
2	Agatha G. F. Commins,	24 Hanson st.	600	1901
1	Charlotte Holmes,	10 Putnam st.	650	1899
Ass't	Eleanor Connor,	25 Church st.	275	1903
K'g'n	H. Gertrude Edgerly,	220 Medford st.	600	1897
Ass't	Ethelyn M. Burton,	2 Homer sq.	425	1900

Table 29.—Teachers in Service January, 1904.—Continued.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
	OREN S. KNAPP			
9	JOHN S. EMERSON, Master,	95 Summer st.	\$1,900	1894
9	Abby C. Hunt,	14 Aldersey st.	725	1873
8	Maude M. Mixer,	6-A Hillside pk.	650	1902
8	Mary E. Stearns,	40 School st.	650	1889
7	C. B. Parkhurst,	22 Highland ave.	650	1899
7	*Mattie J. Connolly,	21 Cutter st.	650	1901
6, 7	Clara B. Sackett,	40 School st.	650	1891
6	Edith Hersey,	154 Washington ave., Chelsea.	650	1899
5	Annie E. Robinson,	20 Webster ave.	650	1876
4	Abbie A. Gurney,	28 Bonner ave.	650	1888
3	L. Gertrude Allen,	230 Washington st.	650	1884
2	Minnie Alice Perry,	16 Pleasant ave.	650	1893
1	Lucia Alger,	28 Bonner ave.	650	1889
	* Deceased, Feb. 5, 1904.			
	ALBION A. PERRY.			
5	Mrs. M. B. McKusick,	267 Broadway, Arlington.	\$775	1897
4	Irene Vincent,	85 Prospect st.	600	1903
3	Mary G. Blackwell,	48 Lowell st.	600	1901
2	Helen M. Cogan,	24 Stone ave.	500	1902
2	Grace B. Tibbetts,	226 Pleasant st., Arlington.	650	1890
1	Erminnie A. French,	356 Moody st., Waltham.	650	1898
Asst.	Dorothy Mac Lam,	26 Vinal ave.	275	1903
	CHARLES G. POPE.			
9	GEORGE M. WADSWORTH, Master,	23 Munroe st.	\$1,900	1891
9	Florence A. Chaney,	Cambridge.	725	1892
8	Harriet M. Clark,	10 Vernon st., West Medford.	650	1893
7	Alice I. Norcross,	26 Russell ave., Watertown.	650	1885
7	Mildred A. Peck,	9 Prospect Hill ave.	650	1901
6	Blanche G. North,	8 Munroe st.	650	1893
6	Minnie A. Blood,	10 Putnam st.	650	1897
5	Lizzie W. Parkhurst,	22 Highland ave.	650	1885
5	Susan G. Meldrum,	57 Boston st.	650	1896
4	Annie G. Sheridan,	84 Prospect st.	650	1886
3	Lillian C. Albee,	42 Walnut st.	650	1888
2	Florence E. Locke,	Needham.	650	1898
1				
	LUTHER V. BELL.			
9	HARLAN P. KNIGHT, Master,	37 Stone ave.	\$1,900	1897
9	Alice L. Davis,	40 Vinal ave.	725	1895
8	Nellie S. Dickey,	54 Putnam st.	650	1889
7	Eva R. Barton,	54 Putnam st.	600	1903
7	Grace E. Weeks,	23 Putnam st.	650	1899
6	Mabel T. Totman,	12 Sanborn ave.	650	1892
6	Maribelle Curtis,	23 Putnam st.	650	1895
5	Emma F. Schuch,	25 Tufts st.	650	1874
5	Elizabeth M. Collins,	7 Putnam st.	650	1901
4	Ella H. Bucknam,	10 Putnam st.	650	1897
3	Florence S. Hartshorn,	96 Glen st.	650	1900
2	Martha E. Daniels,	93 Concord ave.	650	1891
1	E. Laurette Schuch,	25 Tufts st.	650	1882

Table 29.—Teachers in Service January, 1904.—Continued.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
CUMMINGS.				
3	FANNIE L. GWYNNE, Principal,	65 School st.	\$725	1886
4	Ruth B. Stanley,	32 Summit ave.	650	1902
2	Angeline Cann,	Hotel Woodbridge.	650	1897
1	Elizabeth L. Hersey,	Boston.	650	1897
EDGERLY.				
9	CHARLES E. BRAINARD, Master,	82 Munroe st.	\$1,900	1889
9	Mary Corry,	6 Highland ave.	725	1902
8	Annie L. Dimpsey,	9 Hamlet st.	650	1891
7	Mary E. Richardson,	35 Bradley st.	650	1893
7	Mabel C. Mansfield,	35 Bradley st.	650	1893
6	Isabelle M. Gray,	23 Webster st.	650	1897
6	Maud J. Nickerson,	116 Pearl st.	650	1902
6	Edith M. Snell,	4 Vine st., Melrose.	650	1900
5	Mary E. Coyle,	1 Moscow st., Atlantic.	650	1898
4	J. Louise Smith,	196 Washington st., Lynn.	650	1896
3	Lillian Nealley,	109 Glen st.	650	1882
2	Alice W. Cunningham,	21 Pleasant ave.	650	1901
1	Martha M. Power,	37 Gleason st., West Medford.	650	1891
JACOB T. GLINES.				
9	MARY E. NORTHUP, Master,	181 Central st.	\$1,900	1878
9	Mary E. Stiles,	181 Central st.	725	1883
8	Nellie E. Briggs,	15 Evergreen ave.	650	1898
7	Mary H. Brownrigg,	15 Evergreen ave.	650	1900
6	Lilla M. Marble,	72 Rush st.	650	1902
6	Zelpha L. Thayer,	64 Linden st., Reading.	650	1902
5	Ellen A. Boynton,	45 Dartmouth st.	650	1891
5	M. Francis Guptill,	56-A Pinckney st.	650	1869
4	Margaret A. Orr,	148 Warren ave., Boston.	650	1891
4	Mary A. Goddard,	9 Winter Hill Circle.	650	1893
2, 3	Anna G. Welch,	324 Main st., Stoneham.	650	1897
3	Florence E. Baxter,	49 Hudson st.	650	1891
2	Flora B. Rice,	201 School st.	650	1895
1	Carrie Armitage,	57 Madison st.	650	1899
1	Belle J. Tift,	201 School st.	650	1892
K'g'n	Mrs. Etta D. Ellsworth,	112 Newbury st., Boston	600	1897
Ass't	Elsie G. Ashton,	17 Bonner ave.	350	1902
FORSTER.				
9	FRED C. BALDWIN, Master,	63 Sycamore st.	\$1,900	1893
9	Mary E. Bunton,	34 Robinson st.	725	1894
9	Irene S. Nightingale,	14 Court st., Arlington.	700	1895
8	Jessie M. Lockwood,	100 Glenwood rd.	650	1900
8	Lina M. Hooper,	43 Heath st.	650	1903
7	Jane Batson,	32 Florence st., Malden.	650	1900
7	A. Gertrude Deane,	14 Stickney ave.	650	1899
7	Mina P. Bickford,	216 Park st., Medford.	650	1902
7	Emma G. Blanchard,	The Prescott, Everett.	650	1902
6	Elizabeth F. Clement,	29 Kidder ave.	650	1884
6	Naomi E. Stevens,	14 Stickney ave.	650	1903
6, 5	Mabel E. Perry,	187 Central st.	650	1896
5	Mary I. Bradish,	54 Logan ave., Medford.	650	1899
5	Lucy K. Hatch,	72 Marshall st.	650	1892
4	Elizabeth S. Brown,	19 Highland ave.	650	1897
4	Maude L. Kent,	18 Maple ave.	650	1893
4	Grace M. Bothell,	102 Gainsborough st., Boston.	650	1903
3	E. Mina Smith,	2 Pembroke st.	650	1896
3	Annie S. Gage,	32 Marshall st.	650	1883
2	Mabel G. Delano.	108 Cross st.	650	1901
1	Grace Shorey,	23 Forster st.	650	1892
1	Cora J. Demond,	The Prescott, Everett.	650	1900

TABLE 29.—Teachers in Service January, 1904.—Continued.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
BINGHAM.				
8	HARRY F. HATHAWAY, Principal,	31 Vinal ave.	\$1,100	1890
Ass't	Elizabeth J. O'Neil,	505 Broadway.	650	1894
4	Eva M. Barrows,	Everett.	650	1903
4	Helen L. Galvin,	Braintree.	650	1903
3	Harriet F. Ward		650	1895
3	Carrie F. Hathaway,	31 Vinal ave.	650	
2	Grace F. Mulcahy,	36 Adams st.	650	1903
2	Beatrice Kendall,	366 Main st., Charlestown.	650	1900
1	Nellie R. Bray,	11 Bradley st.	650	1898
1	Mabel E. Mansir,	77 Albion st.	650	1891
MORSE.				
9	MINA J. WENDELL, Master,	211-A Summer st.	\$1,900	1882
9	Alice E. Jones.	53 Laurel st.	725	1897
8	P. S. Downes,	17 Bradford ter., Everett.	650	1872
7, 8	S. Elizabeth Hallowell,	99 Summer st.	650	1901
7	Lennie W. Bartlett,	99 Summer st.	650	1893
6	Anna E. Sawyer,	26 Bow st.	650	1872
5	Lizzie E. Hill,	35 Norway st., Boston.	650	1891
4	Alice B. Hazelton	53 Laurel st.	650	1904
4	Abigail P. Hazelton,	53 Laurel st.	650	1902
3	Agnes C. Rice,	20 Spring Hill terrace.	650	1900
2, 3	Ella P. McLeod,	70 Austin st., Cambridge.	650	1888
2	Ardelle Abbott,	71 Craigie st.	650	1897
1	Alice M. Emerson,	146 Highland ave.	650	1891
1	Grace S. Russell,	1097 Broadway.	650	1900
Ass't	Gertrude M. Sias.	37 Wordsworth st., E. Boston.	400	1903
Ass't	Lena Monroe,	211-A Summer st.	275	1903
MARTIN W. CARR.				
9	CHARLES G. HAM, Master,	Watertown.	\$1,900	1898
9	Anne E. Bragdon,	21 Harvard st.	725	1898
8	Clara D. Eddy,	70 Central st.	650	1903
8	Mary E. Barnes,	53 Laurel st.	650	1901
7	May E. Berry.	29 Kidder ave.	650	1902
7	Harriet A. Hills,	1 Hillside pk.	650	1874
6	Marie T. Smith,	87 Orchard st.	650	1898
6	Marion P. Crawford,	53 Laurel st.	650	1897
5, 6	Grace T. Merritt,	47 Cherry st.	650	1900
5	Susie L. Luce,	8 Walter ter.	650	1896
5	Mary A. Haley,	117 Summer st.	650	1867
4	Elizabeth S. Foster,	53 Laurel st.	650	1895
3	Florence B. Howland,	39 Boston st.	650	1897
2, 3	Lillian E. Wentworth,	248 Highland ave.	650	1902
2	Ethel F. Morang,	157 Lowell st.	650	1898
1	Gertrude Friend,	33 Wallace st.	650	1893
1	Annie B. Russell,	45 Russell st.	650	1901
GEORGE W. DURELL.				
4	NORA F. BYARD, Principal,	248 Summer st.	\$725	1884
3	Etta C. Rochefort,	9 Banks st.,	650	1903
2	Edith L. Hunnewell,	23 Milton st.	650	1894
1	Mary Winslow,	38 Spring st.	650	1893
Ass't	Clara L. Griffiths,	39 Ames st.	350	1903
BURNS.				
6	LAURA J. BROOKS, Principal,	31 Stevens st., Stoneham.	\$1,000	1883
Ass't	Margaret D. Jack,	112 Perkins st.	400	1899
5	Cara M. Johnson,	147 Park ave., Arlington.	650	1897
5	Elizabeth A. Davies,	42 Meacham road.	650	1893
4	Minnie S. Turner,	153 Lowell st.	650	1885
3	A. L. Brown,	281 Summer st	650	1885
3, 2	Clara L. Hammond,	30 Chandler st.	650	1903
2	Mary E. Lacy,	63 Cherry st.	650	1890
1	Alice E. Morang,	157 Lowell st.	650	1893
1	Grace M. Bickford,	68 Willow ave.	650	1903

TABLE 29.—Teachers in Service January, 1904.—Continued.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
	BENJAMIN G. BROWN.			
6	ANNIE G. SMITH, Principal,	24 Florence st., Malden.	\$775	1901
5	Grace J. Alexander,	60 College ave.	650	1900
4	Edna M. Proctor,	93 Revere st., Boston.	650	1901
3	Lucy M. Curtis,	39 Munroe st.	650	1899
2	Alice A. Dennen,	2-A Palfrey st., Watertown.	650	1897
1	Ida M. Record,	34 Robinson st.	650	1899
	HIGHLAND.			
9	GEORGE E. NICHOLS, Master,	182 Highland ave.	\$1,900	1877
9	M. Alice Paul,	122 Orchard st.	725	1879
9	Edna F. Grant,	Medway.	700	1903
8	P. E. Mathews,	205 School st.	650	1897
8	N. Irene Ellis,	5 Irving st.	650	1903
7	Grace M. Clark,	10 Vernon st., West Medford.	650	1893
7	Frances A. Darrah,	122 Orchard st.	650	1904
7	Edith G. Watts,	48 Banks st.	650	1904
6	Jennie C. Frazier,	561 Columbus ave., Boston.	650	1887
6	Sarah E. Pray,	28 Quincy st.	650	1878
5, 6	Mary L. Bryant,	34 Pleasant st., Stoneham.	650	1903
5	Mary H. Joyce,	76 Boston st.	650	1891
4	Lillian F. Richardson,	South Acton.	650	1903
	WM. H. HODGKINS.			
9	ARTHUR L. DOE, Master,	83 Chandler st.	\$1,900	1896
9	Alice M. Winslow,	33 Wallace st.	725	1896
8	Edith W. Emerson,	135 Central st.	650	1896
8	Alice S. Hall,	135 Central st.	650	1896
7	Lilla E. Mann,	15 Day st., Cambridge.	650	1902
7	Josephine T. Field,	2106 Mass. ave., Cambridge	650	1903
6	Gertrude W. Leighton,	17 Winter st.	650	1896
6	M. Emily Hodge,	201 Morrison ave.	650	1903
5	Flora A. Burgess,	Arlington Heights.	650	1894
5	D. J. Adams,	13 Cottage ave.	650	1901
4	Catherine A. Burden,	38 Barrett st., Malden.	650	1902
4	Katherine M. Fox,	Stoneham.	650	1896
1	Marion I. Noyes,	15 Park ave.	650	1896
	LINCOLN.			
3, 2	ELIZA H. LUNT, Principal,	50 Curtis st.	\$725	1890
3	Charlotte F. Mott,	154 Charles st., Boston.	650	1886
2	Almena J. Mansir,	77 Albion st.	650	1899
1	Martha A. Jencks,	96 Orchard st.	650	1899
Ass't	Jennie M. Patterson,	17 Avon street.	425	1903
	MARTHA PERRY LOWE.			
4	MAY E. SMALL, Principal,	7 Kingston st.	\$1,000	1900
Ass't	Florence M. Phillips,	211 Holland st.	240	1903
3	Alice M. Dorman,	96 Orchard st.	650	1903
3	Stella M. Holland,	201 Morrison ave.	650	1903
2	Jane M. Taaffe,	159 Morrison ave.	650	1888
2	Maude C. Valentine,	1098 Broadway.	500	1901
2, 1	Katherine E. Hourahan,	12 Grove st.	650	1892
1	Clara G. Hegan,	100 School st.	650	1897
1	Florence M. Hamlin,	128 Orchard st.	650	1889
	EVENING SCHOOL PRINCIPALS.			
	ALBERT L. WARE, Drawing.			
	CHARLES T. MURRAY, Prescott.			
	JOHN S. EMERSON, Bell.			
	FRED C. BALDWIN, Forster.			
	CHARLES E. BRAINARD, Highland.			

TABLE 29.—Teachers in Service January, 1904.—Concluded.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
	SPECIAL TEACHERS.			
	MUSIC.			
6-1	S. Henry Hadley, Charlotte D. Lawton,	46 Pearl st. 60 Bow st.	\$1,700 900	1869 1898
	DRAWING.			
9-1	Mary L. Patrick,	Newtonville.	\$1,000	1895
	SEWING.			
8-5	Mary L. Boyd,	60 Bartlett st.	\$650	1888
8-5	Emma J. Ellis,	54 Marshall st.	650	1900
8-5	Bertha P. Paul,	23 Monmouth st.	650	1900
	PENMANSHIP.			
9-1	Wm. A. Whitehouse,	94 Summer st.	\$1,500	1895

TABLE 30.—OFFICERS IN SERVICE JANUARY, 1904.

	NAME.	Residence.	Salary.	Beginning of Service.
	SUPERINTENDENT.			
	Gordon A. Southworth,	40 Greenville st.	\$3,000	1893
	CLERK.			
	Cora S. Fitch,	69 Walnut st.	\$750	1901
	TRUANT OFFICERS.			
	Lemuel H. Snow, Jairus Mann,	75 Benton road. 80 Porter st.	\$1,100 50	1886 1872

TABLE 31.—SCHOOL JANITORS, JANUARY, 1904.

SCHOOL.	Name.	Residence.	Salary.
Latin High, S .	Joseph Young.	51 Oxford St.	\$1,000 00
English High, S	Lewis G. Keene.	30 Berkeley St.	1,200 00
Prescott, S, 12 .	George A. McGunnigle.	50 Pearl St.	830 00
Edgerly, S, 12 .	David G. Marston.	20 Everett Ave.	830 00
Davis F, 4 .	N. L. Pennock.	54 Putnam St.	480 00
Bell, S, 12 .	F. S. Dickinson.	1 Putnam St.	830 00
Cummings, F, 4	William T. Higgins.	48 Prescott St.	380 00
Knapp, S, 13	John C. Sampson.	14 Sanborn Ave.	890 00
Pope, F, 12 .	Hiram A. Turner.	16 Gibbens St.	830 00
Bennett, S, 12 .	Daniel T. Campbell.	140 Medford St.	890 00
Forster, S, 13 .	James L. Whitaker.	146-R Sycamore St.	780 00
Forster, S, 13 .	John H. Kelley.	19 Sycamore St.	900 00
Glines, S, 14	Roy C. Burckes.	249 School St.	950 00
Bingham, S, 8 .	John F. O'Brien.	5 Richardson Ter.	600 00
Morse, F, 12 .	Edwin B. Price.	33 Church St.	830 00
Durell, S, 4 .	Albert C. Taylor.	11 Berkeley St.	540 00
Burns, S, 4 .	Charles Gallaway.	160 Hudson St.	600 00
Highland, F, 12	E. P. Cook.	377 Summer St.	830 00
Lincoln, S, 4 .	W. B. Higgins.	48 Prescott St.	480 00
Hodgkins, S, 12	Andrew B. Colesworthy.	33 Simpson Ave.	890 00
Hanscom, S, 6 .	Warren Hallett.	155 Walnut St.	600 00
Carr, S, 15 .	James W. Rich.	206 Highland Ave.	1,200 00
Perry, S, 6 .	Henry C. Bradford.	72 Boston St.	600 00
Brown, S, 6 .	O. M. Pote.	23 Howe St.	600 00
Baxter, S, 6 .	Israel Winterbottom.	2 Bolton St.	600 00
Lowe, S, 8 .	John F. Richardson.	23 Appleton St.	600 00

Buildings heated by steam are marked "S," by furnace "F." The numbers show the number of rooms.

The high schools are heated by a single plant in Latin building.

PUBLIC LIBRARY.

BOARD OF TRUSTEES AND OFFICERS

OF THE SOMERVILLE PUBLIC LIBRARY, YEAR ENDING DECEMBER 31, 1903.

Trustees.

CHARLES A. WEST.	J. FRANK WELLINGTON.
EDWARD C. BOOTH, M. D.	CHARLES S. SOULE.
GEORGE W. PERKINS.	HOWARD D. MOORE.
JOHN B. VIALI.	IRVING G. HALL.
FREDERICK W. PARKER.	

Officers.

CHARLES A. WEST	. . . . .	President.
SAM WALTER FOSS	. . . . .	Secretary.

Committees.

Building and Grounds—Viall, Perkins, and Hall.
Administration—Wellington, Soule, and Parker.
Books and Catalogues—West, Viall, Booth, Wellington, Moore, and Hall.
Finance—Perkins, Hall, and Parker.

Librarian.

SAM WALTER FOSS.

Assistant Librarian.

ADELE SMITH.

Cataloguer.

ESTHER M. MAYHEW.

Assistant Cataloguer.

EDITH B. HAYES.

Children's Librarian.

ANNA L. STONE.

School Librarian.

MARY J. WARREN.

Reference and Art Librarian.

MABEL E. BUNKER.

Assistants.

MARY S. WOODMAN.	FLORENCE M. BARBER.
FLORENCE D. HURTER.	GARDNER STACY.
BESSIE L. DUDDY.	CHARLES A. PERRY.
NELLIE M. WHIPPLE.	F. STUART DEAN.
ALICE W. SEARS.	S. TRUMAN CUSHING.

Janitor.

CHARLES A. SOUTHWICK.

PUBLIC LIBRARY ACCOUNT.

Receipts and Expenditures for 1903.

CREDIT.	
Dog tax	\$3,393 02
Annual appropriation	14,800 00
Fines, etc.	576 63
Twice-paid bills	26 06
Total	<u>\$18,795 71</u>

DEBIT.	
Books and periodicals	\$6,634 27
Binding	1,524 11
Cards	69 40
Printing	457 00
Stationery	107 91
Salaries	8,796 10
Agencies	184 73
Repairs	1 00
Express	424 07
Postage	30 00
Telephone	77 18
Labor	73 90
Pictures	7 00
Disbursements	80 57
Ice	10 10
Supplies	14 20
Insurance	191 25
Neostyle	49 00
Desk	31 25
Balance	2 67
Total	<u><u>\$18,795 71</u></u>

Isaac Pitman Art Fund.

CREDIT.	
Balance from 1902	\$16 56
Interest	160 00
Total	<u>\$176 56</u>

DEBIT.	
Books and pictures purchased in 1903	89 41
Balance carried to 1904	87 15
Total	<u><u>\$176 56</u></u>

Isaac Pitman Poetry Fund.

CREDIT.	
Balance from 1902	88 52
Interest	40 00
Total	<u>\$128 52</u>

DEBIT.	
Books purchased in 1903	47 14
Balance carried to 1904	81 38
Total	<u><u>\$128 52</u></u>

REPORT OF THE TRUSTEES.

To His Honor, the Mayor, and Board of Aldermen of the City of Somerville:—

The trustees of the public library beg to submit herewith their thirty-first annual report.

It is gratifying to the trustees to be able to report a steady and rapid gain in circulation, which is in itself an evidence that the library is doing good work, and beyond all, that the opportunities offered to our citizens are appreciated.

The number of volumes delivered for home use during the past year exceeds that of the year previous about thirty-eight thousand, which is, indeed, a very substantial gain.

The public schools have made more than the usual demands upon the resources of the library this year. It is estimated that nearly fifteen hundred books, mostly duplicates, have been purchased for the use of the schools. One hundred and sixty-three schoolrooms are now supplied with these books. Considering the fact that it is only a very few years since the schools were offered the privileges of the library, it is remarkable to what extent the library is used in this particular line of education. Our resources and our facilities are often taxed to the utmost to satisfy the demands of the teachers and scholars for works of reference and scientific research. These demands are met with every means in our power, but with a limited amount available for this class of works it is impossible to furnish everything desired. The board feel that these demands should be answered more fully, and realize more and more each year that the city cannot make a better investment than by furnishing the schools with every possible assistance in the work of education.

A new registration of the library was commenced during the summer vacation, and although it is not yet entirely completed, nearly eight thousand names have been registered. The labor of the new registration has been considerable, but contrary to expectation was accompanied by no remonstrance on the part of the public.

Our plan of supplying books to the Sunday schools works to the utmost satisfaction of the Sunday schools as well as to the library. Seven Sunday schools now avail themselves of the privilege, most of them taking out the maximum number of one hundred books.

The several agencies have done their usual work, but with increasing difficulty. The new plan of giving out books directly from the agencies, although greatly appreciated by the public, adds a new burden to the general work, under which some of the agencies are justly restive, as the moderate compensation paid to them is certainly not commensurate with the labor involved.

In November a long petition signed by a large number of the residents of West Somerville was presented to the board asking that a reading room and a distributing station should be established in that section of the city, but this it was impossible to grant with the means at hand. The justice of the request was readily recognized and the subject was carefully considered. After looking the ground over and estimating the expense of the undertaking, it was decided to bring the matter forcibly to the attention of his honor, the mayor, who, having served on the board of library trustees, was quick to recognize the importance of establishing such a reading room and distributing station. A suitable location was found and a request was made by him to the honorable board of aldermen for authority to execute a lease, which after consideration was referred to the incoming city government. If in their opinion such a move is desirable in the near future, which has the hearty approval of this board, no pains or effort in their power will be spared to make it a success. It must be understood definitely, however, that such an expense cannot be incurred without a necessary appropriation to meet the added outlay. It is estimated that the expense of such a reading room and distributing station will be about two thousand dollars annually. The circulation of books at the West Somerville agency is constantly increasing, and with the necessarily very inadequate means of supplying the residents of this section with books, your board can but feel that some means should be devised to meet this demand. Surely every opportunity should be given to our citizens to enable them to enjoy the treasures which should be theirs for the asking. We commend the subject, therefore, to your favorable consideration.

The rapidly increasing business of the library from year to year demands a gradual increase of appropriation, and for the ensuing year it will be necessary for a small increase over that for the past year.

Free access to all the books under the regulations established previously has been more and more appreciated by the card holders, and has very largely been the means of satisfying the public when unable to obtain just the books desired. One very satisfactory result has been the circulation of books which have hitherto been little used.

Exhibitions of art work by the scholars in the public schools have been continued with interest to all.

The relations that exist among the employees at the library are of the pleasantest kind; the public as a whole seems grateful

for the many efforts put forth in its behalf; the growth and development of the whole library system is gratifying, and the outlook for the future is very hopeful.

In justice to our faithful librarian it must be said that we appreciate his services for the interest of the library in every detail, and it is a pleasure to the board to know that the value of his work is recognized by the association of librarians.

Respectfully submitted,

CHARLES A. WEST,

President.

December 29, 1903.

REPORT OF THE LIBRARIAN.

To the Trustees of the Somerville Public Library:—

I herewith submit the librarian's thirty-first annual report. Below is a statement in detail relative to the various departments:—

The Cataloguing Department.

With the beginning of February, Miss F. Mabel Norcross resigned as head of the cataloguing department, a position she had held with great acceptance since 1893. Her assistant for many years, Miss Esther M. Mayhew, was at once promoted to her place, and has since conducted the work of this rapidly-growing department of the library with entire satisfaction. Miss Edith B. Hayes, at her own request, was transferred from the school department and assumed the work of cataloguer's assistant.

The work of this department has grown to such proportions that were it not for the printed cards furnished by the library of congress, it would be impossible to accomplish the work with our present force. During the past twelve months we have purchased 8,306 of these printed cards at a cost of \$57.84. This is a remarkably small expenditure for the service rendered. It is anticipated that the time will come when practically all the cards needed for a public library can be furnished in this way by the library of congress and thus every library will be able to secure the most expert work in this line the country can furnish at an expenditure within its reach.

A new card cabinet has lately been installed at the Teele-square agency and supplied with these printed cards of the library of congress. These cards cover all the new books that have been purchased since January 1, 1901. Of course such a catalogue is very incomplete when compared with the general card catalogue in the central library. But it contains a list of the new books purchased for the past three years; and it is safe to say that such a list supplies the needs of ninety per cent. of the readers of a public library. I would recommend that these new card catalogues be gradually installed in all the successful agencies. Such catalogues are now in use in both West Somerville agencies and we are now purchasing extra cards from the library of congress with a view to starting a new one in a few years in the agency which shows itself most deserving of it.

Below are the statistics of books withdrawn from the library, books added to the library, and books bound by the library during the year:—

Books Withdrawn.

Number of books worn out	695	
“ “ “ lost by general readers	10	
“ “ “ “ in schools	15	
“ burned on account of infectious exposure	7	
	<hr/>	
Total number withdrawn	727	
Total number of books withdrawn to January, 1903		6,463
“ “ “ “ during 1903		727
	<hr/>	
Total		7,190

Books Added.

Accession number January 1, 1903	63,002
“ “ January 1, 1904	69,244
Total number of books added during 1903	6,242
Books new to the library	3,071
Duplicates	3,171
Total number withdrawn	7,190
Total number of books in the library	62,054

Binding.

Volumes rebound	2,393
Periodicals bound	379
Paper-covered books bound	30
Pamphlets	34
	<hr/>
Total	2,836

The School Department.

The school department since February 1 has been under the direction of Miss Mary J. Warren. Perhaps no department of the library has grown more during the current year. Since the beginning of the year 9,042 books have been sent to the schools. Of these 4,480 were fiction and 4,562 were other works. Out of the 227 schoolrooms in the city, 163 are supplied with special libraries. Formerly twenty-five books was the maximum number sent in these school libraries; but since the beginning of the present school year a maximum of forty books has been permitted. In most instances this number is sufficient. But if the number of pupils in a schoolroom happens to exceed forty in number I think it advisable to send to such a room a number of books equal to its number of pupils.

The books sent out in these school libraries we count as circulating once in every two weeks. It is probable that they do circulate much more frequently than this. But it would add new burdens to the service to ask the teachers, already overworked, to keep an exact count of all the books circulated. So we content ourselves with this arbitrary system, which is sufficiently accurate for practical purposes, although in my judgment somewhat conservative. Counting the school circulation on this basis it amounts for the current year to 27,396 fiction and 38,250 other works, making a total of 65,646.

Many new books have been purchased for these school libraries during the past year but I know not how an equal expenditure of money could have been made to greater advantage.

Reference and Art Department.

The reference and art department under the supervision of Miss Mabel E. Bunker has continued to do useful work. Below is given the monthly attendance for the year:—

January	.	.	.	.	.	.	.	.	.	.	1,036
February	.	.	.	.	.	.	.	.	.	.	1,716
March	.	.	.	.	.	.	.	.	.	.	1,896
April	.	.	.	.	.	.	.	.	.	.	1,077
May	.	.	.	.	.	.	.	.	.	.	1,683
June	.	.	.	.	.	.	.	.	.	.	1,525
July	.	.	.	.	.	.	.	.	.	.	531
August	.	.	.	.	.	.	.	.	.	.	739
September	.	.	.	.	.	.	.	.	.	.	822
October	.	.	.	.	.	.	.	.	.	.	1,203
November	.	.	.	.	.	.	.	.	.	.	1,580
December	.	.	.	.	.	.	.	.	.	.	1,577
Total	.	.	.	.	.	.	.	.	.	.	15,385

During the year there have been fifteen art exhibits, as follows:—

Photogravures of Gerome's paintings.
 Nuremberg.
 Russia.
 Cathedral series.
 Venice, No. 1.
 National Gallery.
 Manual training exhibit from Somerville high school.
 China.
 Paris, No. 2.
 American parks.
 Scotland, No. 1.
 Ovieto.
 Art in Italy, Part 1.
 Art in Italy, Part 2.
 Canterbury and Salisbury cathedrals.

Many works of permanent value have been purchased for this department during the year, among which may be mentioned:—

Encyclopedia Americana.
 New volumes of Encyclopaedia Britannica.
 Anglo-American encyclopedia and dictionary.
 Helmholtz's history of the world—4v.
 Photographs—100 views of American parks.
 Photogravures of Gerome's paintings.
 Forty-six of Soule's photographs of works of art.

Our art room is small, but there is ample room on its walls for good pictures. Visitors are naturally enough disappointed upon being shown into an art room, to find its walls entirely

bare of pictures. In fact, the whole library is singularly destitute of pictorial adornment. Our supply of wall space is very meagre; but we have no pictures of real merit with which to adorn the little wall-space we do have. This is one of the palpable needs of the library. We are trying to purchase photographs, stereoscopic views and temporary picture exhibits to foster the growing love of art so perceptible in this community. But the library should be adorned with a few original paintings of a high order of merit. These would be expensive, and, of course, cannot be purchased from the regular appropriation allowed by the city to the library. In many other localities these gifts have come through the private munificence of citizens or natives. The Somerville library is hopeful of similar donations.

The Children's Department.

The children's department, under the supervision of Miss Anna L. Stone, has done an excellent work. Great care is exercised in purchasing books for the children's room, and this department of the library should do much to foster a love of reading among young people. The circulation from the children's room by months is herewith appended:—

January	.	.	.	.	.	.	.	.	.	5,568
February	.	.	.	.	.	.	.	.	.	6,784
March	.	.	.	.	.	.	.	.	.	8,535
April	.	.	.	.	.	.	.	.	.	6,279
May	.	.	.	.	.	.	.	.	.	4,983
June	.	.	.	.	.	.	.	.	.	4,506
July	.	.	.	.	.	.	.	.	.	4,540
August	.	.	.	.	.	.	.	.	.	4,008
September	.	.	.	.	.	.	.	.	.	4,827
October	.	.	.	.	.	.	.	.	.	5,147
November	.	.	.	.	.	.	.	.	.	6,444
December	.	.	.	.	.	.	.	.	.	7,237
Total	.	.	.	.	.	.	.	.	.	68,858

Of this circulation 77.8 per cent. is fiction and 22.6 per cent. other works.

The walls of the children's room are very plain and bare. A few interesting pictures, suited to juvenile comprehension, would greatly enhance the appearance and add to the usefulness of this room.

General Work.

The general work of the library under the immediate supervision of Miss Adele Smith, the assistant librarian, has increased to a gratifying extent. Our vacation card system has been continued and has been increasingly appreciated by people who spend their summer out of town. The past summer 323 vacation cards were issued, on which 1,811 books were taken out, as against 1,371 last year.

The general circulation figures of the year are as follows:—

January	22,927
February	26,296
March	32,587
April	27,369
May	27,110
June	30,172
July	18,598
August	17,136
September	22,018
October	24,384
November	29,998
December	35,611
Total	314,206

Last year the circulation was 277,075, consequently there is a net increase the current year of 37,131 or a gain of .134 per cent. Of this circulation 70½ per cent. was fiction, and 29½ per cent. other works. Last year our percentage of fiction was 72½ per cent. and 27½ per cent. other works.

Below is given our circulation by classes exclusive of fiction:—

General works	6,730
Philosophy	1,335
Religion	3,537
Sociology	8,224
Philology	964
Natural science	6,749
Useful arts	3,856
Fine arts	7,987
Literature	13,034
History	23,792
Children's room	15,584
Schools, specials, etc.	1,186
Total	92,978

Below is the statistical statement of the general work of the year:—

Accession number January 1, 1904	69,244
Accessions in 1903	6,242
Total circulation	314,206
Delivered from children's room	68,948
“ “ Teele square	5,417
“ “ “ shelves	2,489
“ “ East Somerville	2,960
“ “ “ shelves	1,013
“ “ West Somerville	7,716
“ “ “ shelves	5,035
“ “ South Somerville	3,104
“ “ Union square	345
“ “ Beacon street	1,165
“ “ Magoun square	142
“ “ grammar schools	830
Volumes out in Sunday schools	1,511
“ “ “ school libraries	9,042
Visitors in reference room	15,385
Cards issued	9,114
Books covered	2,014

Cash, fines	\$529 23
“ books	41 28
“ telephone	6 12
Total	<hr/> \$576 63

Sunday Schools.

Our policy, inaugurated last year, of furnishing all Sunday schools that desire the service with books to the maximum number of 100, has been continued without any serious trouble on the part of the library and to the general satisfaction of the Sunday schools. The Bow-street Methodist, the Broadway Congregational, the Prospect-hill Congregational, the Second Unitarian, the Winter-hill Congregational, the Winter-hill Universalist, and the Flint-street Methodist churches are now using these libraries. These churches send up representatives who select the books deemed desirable. These representatives are given a free range through the entire library. In every instance they have been permitted to select the books desired. If they select books for which the library feels an urgent pressing need we permit them even then to retain their selections and immediately purchase new copies of the book in question. If the library has such pressing need of a book that it cannot spare a copy for a Sunday school it is time to buy additional copies of that book.

During the year there have been delivered to the various Sunday schools and the Y. M. C. A. 1,129 books of fiction and 382 other works, making a total of 1,511.

New Registration.

During the year a new registration has been begun and is now practically completed. At the present date 7,699 names have been registered, and 7,699 new cards given out. According to our old registration 23,496 were registered as card-holders. It can now be seen that 15,797 of these have either died, moved away, or ceased to use the library. Our previous registration was made in 1895. In a period of eight years it is probable that only a moderate proportion of these 15,000 have died or moved away. The conclusion is inevitable that they have ceased to use the library. This is in accord with experience and observation. Many card-holders cease to use their cards after a short trial, and many use them only fitfully and occasionally. An inference to be drawn from this is that a large proportion of people fail to form a permanent habit of book-reading. Estimating the population of Somerville as 68,000, only one person in about nine is a card-holder, and it is safe to say that not more than 60 per cent. of our card-holders take out books with regularity. This leaves but a small percentage of the entire population. Even in Somerville, where we are inclined to be proud of our circulation, a limited number of the total aggregate of the people use the public library. I am more and more convinced of this truth every year. The public library

does not reach the people as a whole. Of course no compulsion or over-strenuous missionary work should be done to force the library upon the people. But the great problem of library management is to get its books generally read.

Agencies.

During most of the year the library has circulated books through seven different agencies. Early in November the library reluctantly abandoned its Beacon-street agency. The store at 287 Beacon street, where the library agency was located, was closed, and no other store in the vicinity could be secured to do the work. This agency was well patronized by its local community, and it is a matter of great regret that no means of opening a new one in that vicinity is as yet apparent.

There is so much work at present connected with the care of our agencies that it is a matter of growing difficulty to obtain suitable persons to conduct them. The time is drawing near when some other method of carrying on the agencies of the library must be devised.

Below is a table of circulation of the different agencies during the year:—

	West Somerville.	Teele Square.	East Somerville.	South Somerville.	Magoun Square.	Beacon Street.	Union Square.
January	773		371	279	11	135	
February	849		411	280	10	130	
March	1,194		538	330	15	165	
April	862	109	360	260	11	126	31
May	732	528	285	279	20	107	38
June	952	698	262	301	16	138	46
July	534	670	185	226	9	92	35
August	454	549	99	226	8	119	30
September	310	671	125	266	7	73	39
Shelves	1,124	924	80				
October	317	606	109	191	12	52	44
Shelves	1,303	520	247				
November	326	654	102	285	8	28	34
Shelves	1,442	555	363				
December	413	932	113	261	15	..	48
Shelves	1,166	490	323				
	12,751	7,906	3,973	3,104	142	1,165	345

The library has received the following donations of books, pamphlets, and periodicals during the past year :

List of Donations.

	Vols.	Pamph.	Period.
Aguilar Free Library Society		2	
Amherst College		1	
American New Church Tract & Publication Society	1		
Associated Charities		1	
Audubon Society		1	
Avery, John	1		
Beveridge, Albert J.		1	
Boston Atheneum		1	
Boston Transit Commission	1		
Burrill, Ellen Mudge		1	
Chace, Anna H.	1		
Children's Institutions	1		
Davis, Walter A.	1		
Dodd, Mead & Co.	1		
Eldridge, E. D.		2	
Ellis, George H. Co.		1	
Elliot, Charles D.		1	
Flanagan, Mary R.	2		
Fletcher Memorial Library		2	
Folsom, A. A.	1		
Foss, Sam Walter	1		
Frye, George E.	1		
Gardner, Chester R.			14
Harvard University	1		
Hayes, Lydia Y.	1		
Hillside Club		7	
Hollander, Jacob H.		1	
Home Market Club		1	
Iowa College		2	
Johns Hopkins University		1	
Library of Congress	2		
Lincoln, Mrs. George A.	81	350	
Massachusetts	40	2	
Massachusetts Abstinence Society		1	
Massachusetts Institute of Technology		1	
Massachusetts Single Tax League		1	
Middlesex County	1		
Montville, T. B. de	5		
Mount Auburn Cemetery		1	
National Sound Money League	2		
O'Connell, Rt. Rev. William		1	
Peabody Institute		2	
Perkins Institute	1		
Pratt Institute		2	
Pillsbury, Albert E.	2		
Providence Atheneum		1	
Public Libraries :—			
Allegheny, Pa. (Carnegie Library)		2	
Arlington (Robbins Library)		1	
Carried forward	148	391	14

LIST OF DONATIONS.—Continued.

	Vols.	Pamph.	Period.
Brought forward	148	391	14
Public Libraries (Continued):—			
Atlanta, Ga. (Carnegie Library)		1	
Baltimore (Enoch Pratt Library)		1	
Beverly		1	
Boston	3	1	
Bradford, Pa. (Carnegie Library)		1	
Brockton		1	
Brookline		1	
Brooklyn, N. Y.		1	
Burlington, Vt.		1	
Cambridge		1	
Chelsea		1	
Cleveland, Ohio	1		
Concord, Mass.		2	
Concord, N. H.		1	
Dayton, Ohio		1	
Detroit, Mich.		1	
Dover, N. H.		1	
Erie, Pa.		1	
Everett (Parlin Library)		1	
Everett (Shute Memorial Library)		1	
Fitchburg		1	
Groton		1	
Haverhill		1	
Hyde Park		1	
Jersey City, N. J.		1	
Lancaster, Mass.		1	
Lawrence, Mass.		1	
Lowell		1	
Lynn		1	
Madison, Wis.		1	
Manchester, N. H.		1	
Marblehead (Abbot Library)		1	
Medford		1	
Melrose		1	
Milwaukee, Wis.		1	
Minneapolis, Minn.	1	3	
Nashville, Tenn. (Carnegie Library)		1	
Natick		2	
New Bedford		1	
New Haven, Conn.		1	
Newington, N. H.		1	
New London, Conn.	1		
Newton		1	
Newark, N. J.		1	
North Adams		1	
Northampton		1	
Northampton (Forbes Library)		1	
Paterson, N. J.		1	
Philadelphia, Pa.		1	
Pittsburg, Pa. (Carnegie Library)		2	
Portland, Me.		1	
Portland, Ore.		2	
Carried forward	154	447	14

LIST OF DONATIONS. — Concluded.

	Vols.	Pamph.	Period.
Brought forward	154	447	14
Public Libraries (Continued) :—			
Providence, R. I.		1	
Quincy (Thos. Crane Library)		2	
Rochester, N. H.		1	
Salem		2	
Scranton, Pa.	1	1	
Springfield		1	
Syracuse, N. Y.		1	
Taunton		1	
Waltham		10	
Watertown		1	
Westborough, Mass.		1	
Weymouth (Tufts Library)	1	1	
Woburn		1	
Read, William		2	
Roeder, Adolph		1	
Root, Emery		1	
St. Louis Mercantile Library Association		1	
Sanborn, Mrs. Carrie A.	2		
Sargent, Aaron	1		
Scott, W. B.	1		
Simmons College		2	
Smith, Ralph K.		1	
Smith, Stephen	1		
Smithsonian Institute		1	
Socialist Labor Party	9	19	
Society for the Protection of New Hampshire Forests		1	
Soldiers' Home		1	
Somerville	1		
Somerville Journal		2	
Southworth, Gordon A.	2	1	
Spaulding, Abner C.			25
Story, Isaac M.	1		
Storey, Moorfield		1	
Swedenborgian Society		1	
Thayer, John Eliot	1		
Thompson, C. W. & Co.	1		
Tufts College	2		
United States	8	3	
Universalist Publishing House	1		
University of Illinois		1	
Valentine, H. E.	3		24
Vincent, George I.		1	1
West, Charles A.			56
Whitman, Edmund A.		1	
Whitman, William		2	
Wilbur			571
Wilmington Institute		1	
Totals	190	515	691

Remarks.

The present year, for the first time in the history of the library, we have purchased more duplicate than new books. This is in accordance with a deliberate purpose. It is believed that, outside the domain of fiction, a public library should have a

sufficient number of all the standard works to supply all legitimate public demands. The standard and great works in literature, history, science, music and the arts, in an ideal library, ideally conducted, should never be "out." There should always be duplicates enough to supply the demand. This ideal library can probably never be wholly realized, but it should be our aim to arrive at as close an approximation as possible. The library, for instance, that cannot furnish, upon demand, Tennyson's Poems, Spencer's "First Principles," Emerson's Essays, Plato's Dialogues, Fiske's Histories, or any of the works of the representative English or American authors, is not a thoroughly equipped library. To be sure the proper place for a public library book is "out." But an equally proper thing is for another book, just like it, to be "in." It should be the first aim of a library to get its books "out," and a second and equal aim to have other books "in" to supply their places. To this end a systematic effort has been made to purchase, as rapidly as the funds at our disposal will permit, an adequate number of duplicate copies of such works. This is an end that can be substantially accomplished in a period of three or four years, if a graduated increase of appropriation commensurate with our growing needs is secured. Very much has already been done along this line, and most standard books, outside of fiction and new books in great current demand, are usually "in" when asked for. It is a matter of chagrin that they are not always "in," and it is the aim of the library, in as short a time as it is feasible, to make it possible for such books always to be "in."

Of course this policy cannot be applied to novels. But a large number of novels should be bought. The literary genius of our time expresses itself largely through the novel; and it is the business of a public library to conserve and distribute the best product of the literary genius of all times. But most of the current novels are poor. When so they do not express the genius of the age, or genius of any kind. In such cases they should be ruthlessly rejected. But there are good novels, and a respectable number of them, published every year. These should be purchased and purchased in large numbers. Seventy per cent. of our people demand novels. They will read them; and if they are the right kind it is well they should. The duty of the library is then apparent. It should purchase this "right kind" and purchase them in large numbers. We should buy few individual novels. But these should be of the best and liberally supplied.

The library has had a prosperous and pleasant year. I wish to record my thanks for the faithful service of the staff, as well as for the generous co-operation of your board.

Respectfully submitted,

SAM WALTER FOSS,

Librarian.

December 29, 1903.

REPORT OF THE BOARD OF HEALTH.

OFFICE OF THE BOARD OF HEALTH, }
CITY HALL, January 1, 1904. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—We respectfully submit the following as the twenty-sixth annual report of the board of health, in which is presented a statement, tabulated and otherwise, of the sanitary condition of the city and the business of the board for the year ending December 31, 1903:—

Organization.

ALLEN F. CARPENTER, Chairman.

WILLIAM P. MITCHELL, Clerk.

CALEB A. PAGE, Agent.

Inspector of Animals and Provisions.

CHARLES M. BERRY.

Inspector of Milk.

JULIUS E. RICHARDSON.

Superintendent Collection of Ashes and Offal.

EDGAR T. MAYHEW.

Bacteriologist.

FRANK L. MORSE, M. D.

Nuisances.

A record of nuisances abated during the year, in compliance with notices issued by the board, or under the board's direction, is presented in the following table:—

NUISANCES ABATED IN EACH DISTRICT IN 1903.

(SEE DESCRIPTION OF DISTRICTS IN LATTER PART OF THIS REPORT.)

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Total.
Population (estimated).	8,027	6,250	5,460	6,401	12,185	6,952	7,696	3,784	5,374	4,871	67,000
Bakery offensive	1	1	.....	1	.....	1	.....	.....	2	1	7
Cellar damp	2	4	3	2	1	.....	2	.....	1	1	16
Cesspool offensive	2	1	2	1	3	4	2	5	.....	2	22
Cow barn offensive	3	.....	2	3	1	1	.....	.....	.....	.....	10
Cows kept without license . .	3	.....	.....	2	.....	4	1	.....	4	5	19
Drainage defective	15	5	16	9	5	17	12	9	8	11	107
Drainage emptying into cellar .	3	3	5	4	2	2	4	2	2	1	28
Drainage emptying on surface .	2	2	1	5	2	3	1	1	1	2	20
Fish offal	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Geese in cellar . . . . .	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Goats kept without license . .	1	.....	.....	.....	1	2	.....	.....	.....	.....	4
Hens in cellar	2	.....	1	2	.....	.....	.....	2	1	.....	8
Hennery offensive	5	.....	2	3	2	2	1	2	1	1	19
Manure exposed and offensive .	12	3	3	4	3	2	2	1	1	1	32
Manure pit defective	13	2	4	4	.....	3	3	2	1	1	33
Offal on land	8	3	7	4	3	2	4	1	1	.....	33
Offensive odor in and about dwellings	2	1	.....	3	2	2	.....	1	4	2	17
Pigs kept without license . . .	2	.....	.....	1	1	2	.....	.....	.....	.....	6
Premises dirty	39	17	22	19	20	19	10	8	11	13	178
Privy-vault offensive	9	3	1	1	1	12	4	.....	1	1	33
Rubbish in cellar	4	1	3	2	2	1	2	1	1	2	19
Sewage-gas in house	2	1	2	2	3	2	1	1	.....	1	15
Slops thrown on surface	4	1	.....	1	1	.....	.....	.....	.....	1	8
Stable infected with glanders .	20	6	4	3	7	3	4	1	2	1	51
Stable and stable premises filthy and offensive	10	2	10	4	1	5	3	1	2	3	41
Stable without drainage	4	1	5	2	1	3	2	.....	.....	2	20
Stagnant water on surface . . .	2	1	4	2	1	3	2	1	1	2	19
Water-closet defective	20	8	7	13	9	14	11	7	5	14	108
Water in cellar	5	5	6	5	1	2	3	.....	2	1	30
Water under stable	1	.....	2	1	3	2	2	.....	2	.....	13
Total	197	71	112	103	76	113	76	47	54	69	918

Number of nuisances abated	918
Number of nuisances referred to board of 1904 . .	54
Number of nuisances complained of	972
Number of complaints (many covering more than one nuisance)	582
Number of notices mailed	633
Number of notices served by constables	3

In addition to the above, 235 dead animals have been removed from the public streets, and many nuisances have been abated on verbal notice from the agent, without action by the board, of which no record has been made. Each spring the whole city is examined, and cellars, yards and alleyways where rubbish and filth have collected are required to be cleaned.

Glanders.—Fifty-one cases of glanders have been reported during the year. Prompt action was taken in every case, and forty-nine of the horses were killed, two being released from quarantine by order of the cattle commissioners.

Permits.

The record of permits to keep cows and swine, to collect grease, and to remove manure is as follows:—

Cows.—Forty-seven applications were received for permits to keep 138 cows. Forty-three permits to keep 112 cows were granted, and four permits were refused.

Swine.—Fourteen applications were received for permits to keep twenty-nine swine. Twelve permits were granted to keep twenty-five swine, and two permits were refused. The fee is one dollar for each swine.

Goats.—Seven applications were received for permits to keep eight goats. All were granted. The fee is one dollar for each goat.

Grease.—Nineteen applications were received for permits to collect grease, seventeen of which were granted. The fee is two dollars. Six of the parties licensed reside in Somerville, two in Charlestown, four in Cambridge, two in Boston, two in Chelsea, and one in Watertown.

Manure.—Fourteen permits were issued during the year for the carting of manure through the streets of the city in the daytime between May 1 and November 1. All permits issued for the removal of manure from the stables in the city in the daytime, or for carting through the streets of the city, remain in force until revoked. No fee is charged for these permits.

Melting and Rendering.—Seven parties have been licensed to carry on the business of melting and rendering, under the provisions of the revised laws of 1902, chapter 75, section 111.

Peddlers.

One hundred and six certificates of registration were issued to hawkers and peddlers during the year under the provisions of ordinance number 27—a decrease of sixteen from the year 1902. One hundred and forty-two certificates have been renewed during the year. Each peddler is required to present a writing from the sealer of weights and measures, showing that his measures have been properly sealed, before a certificate is issued to him. Peddlers are also required to present their vehicles at the police station the first Monday of each month for inspection by the agent of the board, that he may see they are kept in a clean condition, and are properly marked with the owner's name and number.

MONDAY, DISTRICT NO. 1.

Comprises the entire area extending easterly to the cities of Boston and Cambridge, from a line drawn across Somerville, commencing on Mystic avenue, and extending through Cross street, Central square, Medford street, Washington street, Prospect street, Webster avenue, Tremont street to the Cambridge line, and including collection on both sides of the above-named streets along the division line described.

TUESDAY, DISTRICT NO. 2.

Comprises the entire area extending westerly from the previously-described district number 1 to a line drawn across the city, commencing on Mystic avenue, and extending through Wheatland street, across Broadway, through Walnut street, and extending across Bow street and Somerville avenue, through Hawkins street, Washington street, Perry street, Wyatt street, Concord avenue, crossing Beacon street to the Cambridge line, and including collection on both sides of the above-named streets along the division line described.

WEDNESDAY, DISTRICT NO. 3.

Comprises the entire area extending westerly from the previously-described district number 2, to a line drawn across the city, commencing at the Medford boundary line at Main street, and extending easterly along said Main street, across Broadway, through Sycamore street, thence easterly on Highland avenue, through School street, thence westerly on Somerville avenue, through Dane street and Washington street to the Cambridge line, and including the collection on both sides of the above-named streets along the division line described.

THURSDAY, DISTRICT NO. 4.

Comprises the entire area extending westerly from the previously-described district number 3, to a line drawn across the city, commencing at the Medford line at Magoun square, and extending on Medford street to Lowell street, thence easterly on Somerville avenue and through Park street to the Cambridge line, and including the collection on both sides of the above-named streets along the division line described.

FRIDAY, DISTRICT NO. 5.

Comprises the entire area extending westerly from the previously-described district number 4, to a line drawn across the city, commencing on Broadway, and extending through Willow avenue to the Cambridge line, and including the collection on both sides of the above-named streets along the division line described.

SATURDAY, DISTRICT NO. 6.

Comprises the entire area extending westerly from Willow avenue to the Medford, Arlington, and Cambridge lines.

Board of Infants.

Seven parties, whose applications were first approved by this board, have been licensed by the state board of charity to care for fourteen children, in this city, under the provisions of chapter 83 of the revised laws of 1902.

Deaths.

There were 955 deaths and fifty-eight stillbirths in the city during the year, as specified in the following table, which shows an increase of deaths over the previous year of sixty-five:—

Deaths at Somerville hospital during the year	38
Deaths at home for aged poor (Highland avenue)	65

DEATHS BY AGES.

AGES.	Total.	Male.	Female.
Under one	170	108	62
One to two	33	16	17
Two to three.	19	5	14
Three to four	14	7	7
Four to five	10	6	4
Five to ten	22	11	11
Ten to fifteen	11	5	6
Fifteen to twenty	19	9	10
Twenty to thirty	68	39	29
Thirty to forty	76	30	46
Forty to fifty	64	26	38
Fifty to sixty	77	40	37
Sixty to seventy	149	67	82
Seventy to eighty	148	57	91
Eighty to ninety	66	25	41
Ninety and over	9	3	6
Total	955	454	501

Of the stillborn, 36 were males and 22 females.

Mortality in Somerville in 1903.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
ZYMOTIC DISEASES.													
MIASMATIC.													
Scarlet fever	4	2	...	...	...	1	...	...	...	...	...	3	10
Diphtheria	1	2	3	...	2	1	...	2	2	2	2	2	19
Typhoid fever	3	1	1	...	1	...	...	...	2	2	...	...	10
Erysipelas . . . . .	...	...	...	...	...	...	...	...	1	...	...	...	1
Diarrhœa . . . . .	...	...	...	...	1	...	...	...	2	...	...	...	3
Cholera morbus . . . . .	...	...	...	...	...	...	1	...	...	...	...	...	1
Cholera infantum . . . . .	...	...	...	...	...	...	1	9	...	...	...	...	10
Whooping cough	1	2	2	2	3	...	1	...	...	1	...	...	12
Dysentery . . . . .	...	1	1	...	1	...	...	1	1	...	...	...	5
La grippe . . . . .	...	3	5	1	2	...	...	...	...	...	...	...	11
Meningitis . . . . .	...	6	2	3	3	1	3	5	2	3	3	1	32
Septicæmia	2	...	1	2	1	...	1	...	...	...	1	...	8
Rheumatism	1	...	1	1	3	1	...	...	...	2	...	2	11
Syphilis . . . . .	...	...	...	...	...	...	...	...	...	...	1	...	1
Carbuncle . . . . .	...	...	...	1	...	...	...	...	...	...	...	...	1
CONSTITUTIONAL DISEASES													
DIATHETIC.													
Anæmia . . . . .	...	1	1	...	...	...	...	...	1	1	...	2	6
Cancer	4	4	3	5	2	3	4	3	3	5	3	5	44
Tumor . . . . .	...	2	2	...	2	...	1	...	1	2	...	...	10
Gangrene . . . . .	...	...	1	...	1	1	1	1	1	...	...	...	6
TUBERCULAR.													
Tuberculosis	6	4	7	8	4	4	9	6	10	7	4	13	82
Tubercular meningitis	1	...	...	1	...	...	2	...	1	1	1	...	7
LOCAL DISEASES.													
NERVOUS SYSTEM.													
Apoplexy	8	2	6	11	1	1	2	2	2	1	1	3	40
Paralysis	5	2	1	1	1	1	1	...	2	1	3	2	20
Brain diseases	2	...	2	...	1	...	...	1	...	1	...	4	11
Convulsions . . . . .	...	...	1	...	...	...	1	...	...	1	...	1	4
Spinal disease . . . . .	...	...	...	...	...	...	1	...	...	...	...	1	2
Hemiplegia . . . . .	...	1	1	2	1	...	...	...	...	...	...	...	5
Epilepsy . . . . .	...	...	1	1	...	1	...	...	...	2	...	1	6
Myelitis . . . . .	...	...	...	...	...	...	1	...	...	...	...	...	1
Tetanus . . . . .	...	...	...	...	...	...	1	...	...	...	...	...	1
ORGANS OF CIRCULATION.													
Heart disease	7	8	5	12	9	6	2	6	11	6	9	11	92
Angina pectoris	1	...	1	...	1	...	...	1	1	...	...	...	5
Cyanosis . . . . .	...	...	1	...	...	...	...	1	...	1	...	...	3
RESPIRATORY ORGANS.													
Pneumonia	14	10	16	13	16	9	4	5	4	8	8	15	122
Bronchitis	6	7	4	3	2	3	2	2	2	3	1	4	39
Hemorrhage . . . . .	...	...	1	...	...	...	...	...	...	1	...	...	2
Asthma . . . . .	...	1	...	1	...	...	1	...	...	...	...	...	3
Laryngitis	1	...	...	...	...	...	...	...	...	...	...	...	1
Pulmonary œdema	1	...	2	2	...	...	2	...	2	1	...	1	11
Emphysema	1	...	...	...	...	...	1	1	...	1	...	...	4
Pleurisy . . . . .	...	...	...	...	1	...	...	...	...	...	...	2	3

MORTALITY IN SOMERVILLE IN 1903. — Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
LOCAL DISEASES.													
DIGESTIVE ORGANS.													
Catarrh of stomach	2	2	5	2	1	1	2	1	2	1	1	2	17
Gastritis	1	2	2	2	1	1	1	1	1	2	3	1	13
Peritonitis	2	1	1	1	1	1	1	1	1	1	1	1	7
Liver disease	1	1	1	1	1	1	1	1	1	1	1	1	3
Gastric ulcer	1	1	1	1	1	1	3	1	6	1	1	1	13
Enteritis	1	1	1	1	1	1	1	1	1	1	1	1	4
Hernia	1	1	1	1	1	1	1	1	1	1	1	1	4
Appendicitis	1	1	1	1	1	1	1	1	1	1	1	1	4
Cirrhosis	1	1	1	1	1	1	1	1	1	1	1	1	1
Jaundice	1	1	1	1	1	1	1	1	1	1	1	1	2
GENITO-URINARY ORGANS.													
Bright's disease	1	5	5	6	1	2	1	2	2	2	3	2	30
Diabetes	1	1	1	1	1	1	1	2	1	1	2	1	11
Cystitis	2	2	2	1	1	1	1	1	1	1	1	1	4
Nephritis	5	5	5	2	2	4	4	3	2	3	2	4	41
Childbirth	3	3	3	3	3	3	3	3	3	3	3	3	5
Eclampsia	1	1	1	1	1	1	1	1	1	1	1	1	2
INTEGUMENTARY SYSTEM.													
Abscess	1	1	1	1	2	1	1	1	1	1	1	1	6
Eczema	1	1	1	1	1	1	1	1	1	1	1	1	1
Pemphigus	1	1	1	1	1	1	1	1	1	1	1	1	1
Ulcer	1	1	1	1	1	1	1	1	1	1	1	1	2
DEVELOPMENTAL DISEASES.													
OF CHILDREN.													
Inanition	4	3	4	2	2	2	2	2	1	2	1	3	24
Premature birth and congenital debility	4	2	2	3	3	2	1	3	4	3	3	4	34
Mal-formation	1	1	1	1	1	1	1	1	1	1	1	1	3
OF OLD PEOPLE.													
Old age	3	4	5	5	2	2	2	1	2	2	1	2	29
VIOLENT DEATHS.													
Drowning	1	1	1	1	1	1	1	1	1	1	1	1	2
Railroad	1	1	1	1	1	1	1	1	1	1	1	1	2
Suicide	1	1	1	1	1	1	1	1	1	1	1	1	5
Burning	1	1	1	1	1	1	1	2	1	1	1	1	3
Fracture of thigh	1	1	1	1	1	1	1	1	1	1	1	1	1
Fracture of skull	1	1	1	1	1	1	1	1	1	1	1	1	7
Fracture of hip	1	1	1	1	1	1	1	1	1	1	1	1	4
Injury to head	1	1	1	1	1	1	1	1	1	1	1	1	1
Suffocation	1	1	1	1	1	1	1	1	1	1	1	3	7
Total	100	88	101	91	81	50	64	70	69	75	57	109	955
Stillborn	1	6	6	11	5	5	2	6	2	5	5	4	58

Population (estimated) 67,000
 Death rate per thousand 14.55

Social Relations of Decedents.

Married	304
Single	408
Widow	168
Widower	73
Divorced	2
Unknown	—
Total	955

Nativity of Decedents.

Somerville	266
Massachusetts	207
Other New England states	132
Other states	21
Canada	80
England, Scotland, and Wales	34
Ireland	179
Italy	2
Norway and Sweden	9
Russia	5
Other countries	17
Unknown	3
Total	955

Nativity of Parents of Decedents.

	Father.	Mother.
Somerville	21	19
Massachusetts	173	185
Other New England states	154	133
Other states	19	26
Canada and provinces	108	103
England, Scotland, and Wales	68	55
Ireland	309	327
Italy	9	8
Norway and Sweden	18	14
Russia	10	11
Other countries	36	29
Unknown	30	45
Total	955	955

Of the parents of the stillborn, 24 fathers and 27 mothers were natives of the United States, and 32 fathers and 30 mothers were of foreign birth. Birthplaces of two fathers and one mother unknown.

Diseases Dangerous to the Public Health.

This board has adjudged that the diseases known as small-pox, scarlet fever, diphtheria, membranous croup, typhus fever, typhoid fever, chicken-pox, and cholera are infectious, or contagious, and dangerous to the public health and safety within the meaning of the statutes. Physicians are required to report immediately to the board every case of either of these diseases and all cases of measles coming under their care, and postal cards conveniently printed and addressed are supplied to them for the

purpose. On receipt of a card from a physician, the superintendent of schools, the principal of the school in the district in which the patient resides, and the librarian of the public library are notified.

Scarlet Fever.—One hundred forty-six cases of scarlet fever have been reported during the year, ten of which resulted fatally. In 1902 there were seventy-eight cases, three of which resulted fatally.

Diphtheria.—Two hundred and eight cases of diphtheria have been reported during the year, nineteen of which were fatal. In 1902 there were two hundred twenty-four cases, nineteen of which proved fatal. Anti-toxin has been provided by the state board of health, and placed by this board in central locations for use by physicians in cases where people are unable to purchase the same. Culture tubes for diphtheria and sputum bottles for suspected tuberculosis have been obtainable at the same stations.

Warning cards are used in dealing with scarlet fever and with diphtheria, and the premises are fumigated by the use of the formaldehyde gas regenerator, immediately after the termination of the case. An inspection is made by the agent of the board of the premises where diphtheria is reported, and all sanitary defects discovered are required to be remedied as soon as possible.

Typhoid Fever.—Thirty-eight cases of typhoid fever have been reported during the year, ten of which have proved fatal. In 1902 there were twenty-eight cases reported, six of which were fatal.

Typhus Fever, Cholera.—No cases of typhus fever or cholera have been reported the past year.

Smallpox.—No cases of smallpox have been reported during the year.

Number of houses placarded	.	.	.	.	.	.	.	.	354
Premises disinfected by agent	.	.	.	.	.	.	.	.	438

Disinfection.

It will be seen by the foregoing figures that, in addition to the 354 premises infected with scarlet fever or diphtheria, eighty-four other premises were disinfected. This work was done at the request of attending physicians whose patients, in nearly all cases, had been ill with consumption, typhoid fever, or cancer. It has become the general practice among physicians to ask that rooms which have been occupied by persons suffering from consumption or cancer be disinfected.

Many library books have also been disinfected and quantities of infected bedding and other material have been burned.

TABLES.

The prevalence of scarlet fever, diphtheria and typhoid fever in the city during the several months of the year 1903 is shown by the following table, and in the table next following is given the number of deaths from these three diseases, by months, during the last ten years : —

Scarlet Fever, Diphtheria and Typhoid Fever Reported in 1903.

MONTHS.	SCARLET FEVER.			DIPHTHERIA.			TYPHOID FEVER.		
	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.
January . . .	18	4	22.1	21	1	5.1	6	3	50.0
February . . .	9	2	22.1	15	2	13.3	3	1	33.3
March	3	....	....	11	3	27.3	2	1	50.0
April	3	....	....	11	...	...	2	....	....
May	19	....	....	9	2	22.2	3	1	33.3
June	20	1	5.0	5	1	20.0	1	....	....
July	13	....	....	20	...	....	2	....	....
August	8	....	....	18	2	11.1	10	....	....
September . .	9	....	....	15	2	13.3	3	2	66.6
October	4	....	....	17	2	11.8	4	2	50.0
November . . .	17	....	....	31	2	6.5	2	....	....
December . . .	23	3	13.1	35	2	5.7	....	....	....
Total	146	10	6.9	208	19	9.1	38	10	26.3

Deaths from Scarlet Fever, Diphtheria and Typhoid Fever in the Last Ten Years.

MONTHS.	SCARLET FEVER.										DIPHTHERIA.										TYPHOID FEVER.									
	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
January . . .	7	8	..	..	..	..	..	..	..	4	2	4	12	..	2	1	7	10	4	1	2	..	2	..	2	1	..	1	..	3
February . .	3	5	..	..	..	..	1	4	1	2	3	1	5	2	..	2	1	4	..	2	..	1	..	..	2	1	1	2	..	1
March	7	2	1	2	..	..	..	1	..	..	4	6	3	4	..	..	5	2	..	3	..	1	..	1	..	..	1	..	1	1
April	3	1	..	2	..	..	2	..	..	..	1	6	5	5	1	..	2	..	1	..	..	..	2	1	2	..	..	..	..	..
May	7	..	..	..	..	..	..	..	..	..	3	4	4	7	1	1	5	3	2	2	2	2	..	1	1	1	..	..	..	1
June	4	..	..	..	..	..	..	..	..	1	..	..	2	1	..	..	3	1	..	1	1	1	1	2	..	1	..	..	..	..
July	4	1	..	2	..	..	..	..	..	..	1	2	5	1	..	..	4	..	1	..	1	1	..	2	..	1	..	1	1	..
August	3	..	1	..	..	..	..	..	..	..	4	3	2	3	3	..	..	2	1	2	1	2	2	2	1	2	1	1	..	..
September . .	1	..	..	..	..	..	..	..	..	..	..	2	2	7	..	..	9	1	..	2	..	..	..	..	2	1	3	1	2	2
October . . .	3	..	2	..	..	..	1	..	..	..	4	3	1	5	..	1	6	3	2	2	..	4	3	2	1	1	3	1	1	2
November . .	7	..	..	..	..	..	2	..	1	..	5	4	7	8	2	1	3	2	3	2	2	..	5	1	..	3	2	..	..	..
December . .	2	..	1	..	..	3	1	..	1	3	1	8	6	1	1	5	4	1	5	2	2	1	1	..	1	3	..	3	1	..
Total	51	17	5	6	0	3	7	5	3	10	28	43	54	44	10	11	49	29	19	19	13	10	26	11	11	15	9	12	6	10

Compulsory Vaccination.

The work of compulsory vaccination was continued from January 1 to February 28, 1903. The board having been instructed by his honor, the mayor, that the work could not longer continue on account of lack of money wherewith to prosecute it, there being no cases of smallpox in the city, and the districts already vaccinated comprising nearly all the infected areas, it was voted February 17 that the work be suspended, and that the smallpox hospital be closed and the services of the matron dispensed with after February 19.

Following will be found the recapitulation of the work done from October 24, 1902, to February 28, 1903, inclusive:—

Number of Hours Worked.	Number of Inspections.	Number of Vaccinations.
3,652½	39,726	7,905

Statement of the total expenditures for compulsory vaccination from October 24, 1902, to February 28, 1903:—

Compensation to physicians	\$7,255 00
Clerical services	138 00
Janitor's services	97 27
Vaccine points	475 00
Card index, (including cards and case)	152 70
Printing	62 26
Advertising	52 50
Postage	11 05
Cotton, alcohol, etc.	33 25
Total	<hr/> \$8,277 03

Bacteriological Department.

The work of this department was performed by Frank L. Morse, M. D., whose report is appended to this report:—

Specimens will be received at the laboratory at the city hall daily, including Sunday, at any time, and they will be examined and reported upon the morning following their reception.

SPECIMENS AND ANTI-TOXIN.

Outfits for specimens for tuberculosis and diphtheria, and diphtheria anti-toxin, may be obtained at the laboratory and at the following places:—

Charles H. Crane, 154 Perkins street.

Milton H. Plummer, 25 Union square.

Percy A. Hall, 2 Studio building, Davis square.

Herbert E. Bowman, 529 Medford street, Magoun square.

Eugene B. Carpenter, 10 Broadway.

Julius E. Richardson, 310 Broadway.

Outfits for typhoid fever and malaria will be supplied from the laboratory only.

After the specimen is collected, it must be taken or sent directly to the laboratory at the city hall.

Districts.

The accompanying map shows the boundaries of the ten health districts into which the city was divided by the board of health of 1878.

A record has been kept from year to year of the number of deaths, the death rate per thousand, the prevalence of dangerous diseases, and the number of nuisances abated in these several districts, and is continued in the following tables, and in the table near the beginning of this report.

The estimated population in the several districts was originally based on the number of assessed polls in each, and upon the population of the entire city; the ratio of polls to population being presumed to be the same in all the districts. Substantially the same method of estimating the population has been continued, the census of every fifth year being taken as a basis for calculation.

The number of dwellings and of assessed polls May 1, 1903, has been obtained from the assessors' books.

MAP OF THE
CITY
OF
SOMERVILLE.

1904
**SHOWING
HEALTH DISTRICTS.**

JOSEPH H. BAILEY
CITY ENGINEER

CONTOURS WITH ELEVATIONS ABOVE MEAN LOW WATER

SCALE

0 100 200 300 400 500 FEET

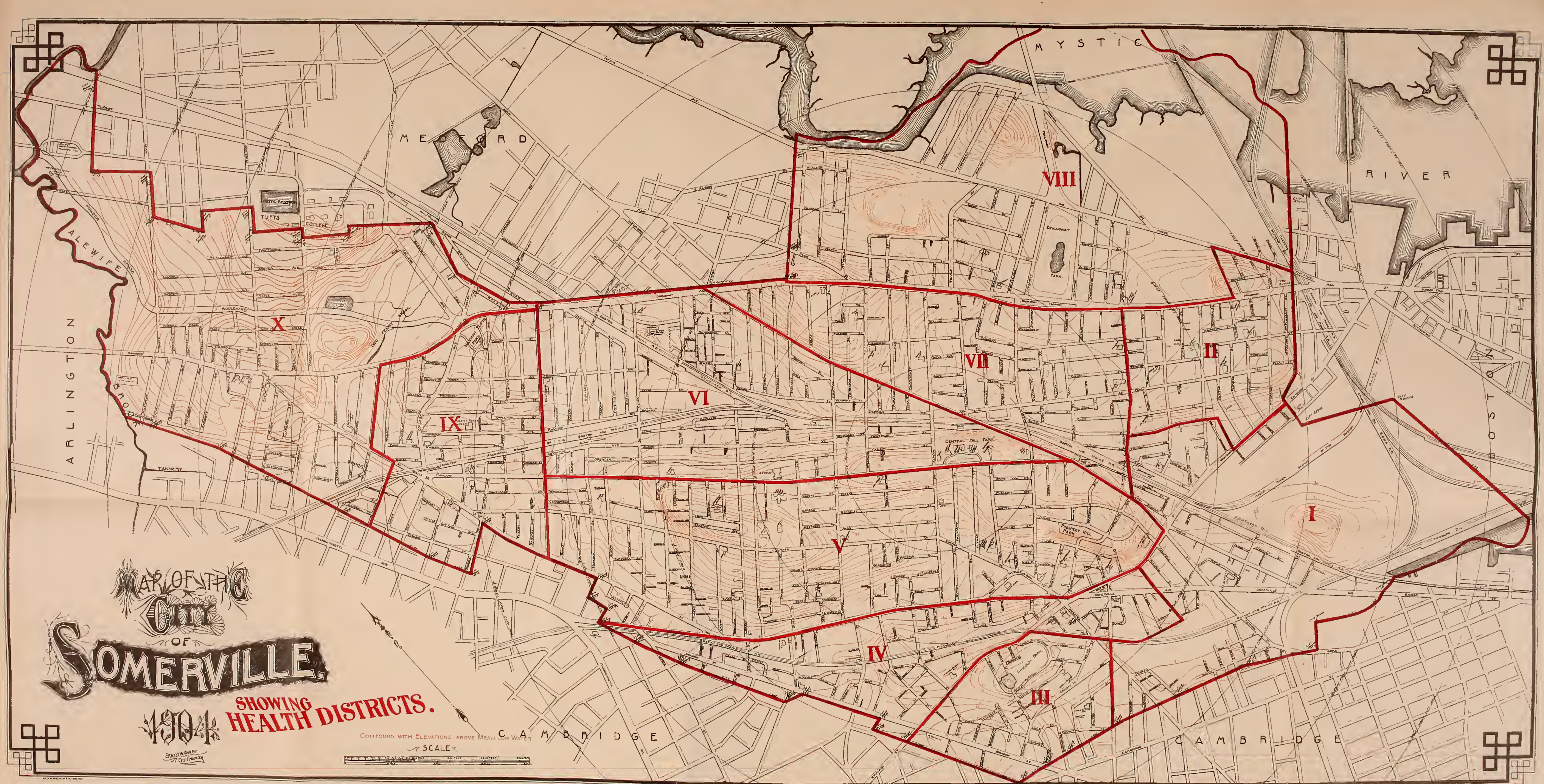


Table of Deaths in Each District During the Last Ten Years.

Districts	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Entire City.	
Area	337 A.	107 A.	93 A.	171 A.	361 A.	285 A.	194 A.	482 A.	174 A.	456 A.	2,660 A.	
In 1903.	Population	8,027	6,250	5,460	6,401	12,185	6,952	7,696	3,784	5,374	4,871	67,000
	Dwellings	1,047	1,049	876	1,035	2,178	1,252	1,321	650	1,002	905	11,315
	Average in each dwelling . .	7.7	6.0	6.2	6.2	5.6	5.6	5.8	5.7	5.4	5.4	6.0
YEAR.	Number of Deaths.	Number of Deaths.	Number of Deaths.	Number of Deaths.	Number of Deaths.	Number of Deaths.	Number of Deaths.	Number of Deaths.	Number of Deaths.	Number of Deaths.	Number of Deaths.	
	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	
1894	157 22	66 12	86 19	117 21	188 18	70 13	64 10	43 17	37 10	27 11	855 16	
1895	136 19	76 14	91 20	94 17	184 17	77 15	67 16	29 12	29 8	40 17	823 16	
1896	155 22	94 18	77 17	105 19	180 16	97 16	82 13	46 16	36 9	52 21	924 17	
1897	158 22	80 15	80 16	88 17	170 15	93 15	68 12	40 14	29 8	53 18	859 15	
1898	161 23	67 13	79 16	88 17	194 18	92 15	93 14	28 9	50 12	28 9	880 15	
1899	102 14	68 13	81 16	113 19	155 14	87 14	87 13	34 11	46 11	28 9	801 13	
1900	134 17	92 15	87 16	115 19	229 20	82 13	82 11	41 12	54 12	51 15	967 16	
1901	133 17	74 12	70 13	67 11	178 15	65 10	66 9	47 14	58 11	73 20	831 13	
1902	140 18	80 13	75 14	73 12	184 18	70 10	71 10	53 15	63 12	81 20	890 13	
1903	158 20	79 13	76 14	89 14	151 12	96 14	90 12	64 17	65 12	87 18	955 14	
Average death rate per 1,000 for ten years												

Table Showing the Five Principal Causes of Death in Somerville in 1903, with the Number and Rate in Each District.

DISTRICTS.	PNEUMONIA.		HEART DISEASE.		TUBERCULOSIS.		CANCER.		NEPHRITIS.	
	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.
I.	21	2.62	14	1.74	14	1.74	8	1.00	5	0.62
II.	11	1.76	8	1.28	6	0.96	6	0.96	6	0.96
III.	13	2.38	6	1.10	6	1.10	4	0.73	4	0.73
IV.	11	1.72	6	0.94	9	1.41	2	0.31	3	0.47
V.	14	1.15	11	0.90	12	0.98	4	0.33	4	0.33
VI.	15	2.16	12	1.73	9	1.29	6	0.87	7	1.00
VII.	13	1.69	11	1.43	6	0.78	5	0.65	3	0.39
VIII.	7	1.85	8	2.11	5	1.32	3	0.79	1	0.26
IX.	5	0.93	9	1.67	6	1.12	3	0.56	6	1.12
X.	12	2.46	7	1.44	9	1.85	3	0.62	2	0.41
Total	122	1.82	92	1.37	82	1.22	44	0.66	41	0.61

Table of Scarlet Fever, Diphtheria and Typhoid Fever in Each District in 1903.

DISTRICTS.	SCARLET FEVER.				DIPHTHERIA.				TYPHOID FEVER.			
	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Deaths per 1,000 of Pop.	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Deaths per 1,000 of Pop.	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Deaths per 1,000 of Pop.
I.	17	1	2.12	0.12	37	4	4.60	0.50	3	1	0.37	0.12
II.	10	1	1.60	0.16	21	1	3.36	0.16	3	1	0.48	0.16
III.	14	1	2.56	0.18	27	2	4.94	0.36	1	..	0.18	....
IV.	20	1	3.12	0.16	25	5	3.90	0.78	2	1	0.31	0.16
V.	17	2	1.39	0.16	24	4	1.97	0.33	9	2	0.74	0.16
VI.	16	2	2.30	0.29	21	..	3.02	....	3	..	0.43	....
VII.	10	..	1.30	....	19	1	2.47	0.13	8	4	1.04	0.52
VIII.	11	1	2.91	0.26	8	..	2.11	....	12	..	0.53	....
IX.	16	..	2.97	....	12	..	2.23	....	2	..	0.37	....
X.	15	1	3.08	0.21	14	2	2.87	0.41	5	1	1.03	0.21
Total	146	10	2.18	0.15	208	19	3.11	0.28	38	10	0.57	0.15

Undertakers.

Under the provisions of section 44 of chapter 78 of the revised laws of 1902, sixteen persons have been duly licensed as undertakers, and two petitions for such licenses refused.

Examiners of Plumbers.

The public statutes provide for a board of examiners of plumbers, consisting of the chairman of the board of health, the inspector of buildings, and an expert at plumbing, to be appointed by the board of health. This board appointed Duncan C. Greene, the inspector of plumbing, to fill the place of expert. The number of licenses granted will be found in the report of the inspector of buildings.

Regulations.

The following health regulations have been adopted since the publication of the Somerville Municipal Manual of 1901, which contained the regulations then in force : —

CITY OF SOMERVILLE. }
IN BOARD OF HEALTH, November 4, 1901. }

Ordered, that the following regulation be and hereby is adopted:—

REGULATION FOR BARBER-SHOP.

The place of business shall be kept at all times in a cleanly condition. Mugs, shaving-brushes and razors shall be sterilized by immersion in boiling water after every separate use thereof. A separate clean towel shall be used for each person. Alum, and other material used to stop the flow of blood, shall be used only in powdered form, and applied on a towel. The use of powder puffs is prohibited. The use of sponges is prohibited. Every barber-shop shall be provided with running hot and cold water. No person shall be allowed to use any barber-shop as a dormitory. Every barber shall cleanse his hands thoroughly immediately after serving each customer.

The penalty provided for violating the above regulation is a sum not exceeding one hundred dollars.

CITY OF SOMERVILLE. }
IN BOARD OF HEALTH, July 21, 1902. }

Ordered, that the following regulation be and hereby is adopted:—

The Board of Health hereby adjudges that the exercise of the trade or employment of keeping one or more cows in the city of Somerville is a nuisance, hurtful to the inhabitants, injurious to their estates, dangerous to the public health, and attended by noisome and injurious odors, and hereby prohibits the keeping of one or more cows within the limits of the City of Somerville, without a written permit from this board.

Every person keeping a cow shall cause the place where it is kept to be well ventilated and drained, and kept at all times in a cleanly and wholesome condition. Such permit may be revoked at any time when such revocation shall appear to the board to be necessary for the public health and safety. All such permits shall expire on the first day of May annually.

Chapter XI. of the regulations of this board is hereby repealed.

CITY OF SOMERVILLE. }
IN BOARD OF HEALTH, August 19, 1902. }

Ordered, that the following regulation be and hereby is adopted:—

No person other than members of this board and its agent and persons authorized by one of said members, or by said agent, shall approach nearer than one hundred and fifty feet of the hospital buildings now or hereafter located near North street in Somerville, and used for the reception of persons having smallpox.

Whoever violates the foregoing regulation shall forfeit not less than ten dollars nor more than one hundred dollars for each offence.

CITY OF SOMERVILLE. }
IN BOARD OF HEALTH, November 9, 1903. }

Ordered, that the following regulation be and hereby is adopted:—

The Board of Health hereby adjudges that the exercise of the trade or employment of keeping one or more hens in the City of Somerville is a nuisance, hurtful to the inhabitants, injurious to their estates, dangerous to the public health, and attended by noisome and injurious odors, and hereby prohibits the keeping of one or more hens within the limits of the City of Somerville, without a written permit from this board.

Every person keeping hens shall cause the place where they are kept to be well ventilated and drained, and kept at all times in a cleanly and wholesome condition. Such permit may be revoked at any time when such revocation shall appear to the board to be necessary for the public health and safety. All such permits shall expire on the first day of May annually.

Health Department Account.

CREDIT.

Appropriation	\$43,827 80	
Receipts:—		
Commonwealth of Massachusetts, contagious diseases	115 82	
Middlesex Paper Company, paper	1,413 00	
City of Cambridge, contagious diseases	465 00	
Hannibal S. Pond, offal	1,100 00	
Milk inspector, milk fees	132 04	
Permit fees	68 00	
Public Buildings Maintenance, School-houses, janitors	39 00	
Total credit		\$47,160 66

DEBIT.

Expenditures:—	
Salary of agent	\$1,200 00
Salary of superintendent of collection of ashes and offal	1,100 00
Salary of inspector of animals and provisions	800 00
Salary of inspector of milk and vinegar	800 00
Salary of bacteriologist	622 58
Collecting ashes	13,761 75
Collecting offal	11,982 00
Stable expenses	1,438 00
Amount carried forward	\$31,704 33

Amount brought forward	\$31,704 33
Wagons, sleds, and repairing same . .	1,570 95
Tools and repairing same	237 40
Harnesses and horse clothing	360 01
Horses and horse doctoring	1,291 46
Hay and grain	4,488 94
Vaccine virus	10 20
Burying dead animals	122 00
Books, stationery, printing and postage .	108 15
Office expenses, milk inspector . .	20 36
Bacteriological laboratory	26 70
Telephones	137 21
Smallpox cases	725 03
Smallpox hospital	514 50
Incidentals	249 76
Compulsory vaccination	4,526 71
Board of agent's horse	319 00
Care of diphtheria and scarlet fever cases,	57 38
Horseshoeing	690 57
<hr/>	
Total debit	<u>\$47,160 66</u>

ALLEN F. CARPENTER, Chairman,
 ALBERT C. ALDRICH, M. D.,
 EDMUND S. SPARROW,

Board of Health.

REPORT OF BACTERIOLOGIST.

Somerville, January 26, 1904.

To the Board of Health of the City of Somerville:—

Gentlemen,—I herewith present the report of the bacteriologist for the year 1903.

During the latter part of December, 1902, in accordance with your vote, a laboratory was established at the city hall and regular bacteriological examinations were commenced upon January 1, 1903.

During the year, 817 examinations were made of cultures for the diphtheria organism, 137 examinations made of sputum from patients suspected of having tuberculosis, 72 examinations to detect the Widal reaction in typhoid fever, and seven examinations for making a diagnosis of malaria in patients showing symptoms of that disease.

With the beginning of the year your board established regulations, which required, in cases of diphtheria, that no patient should be released from quarantine until two consecutive negative cultures had been obtained from the patient, one by the attending physician and one by a physician representing the board, thus making the work more extensive than had been previously required. Culture stations were also established at four different parts of the city, which were later increased to six in number, to more generally accommodate the physicians of the city, at which places, in connection with the laboratory, culture outfits and sputum bottles could be obtained. The outfits for typhoid fever and malaria were to be obtained at the laboratory only. To avoid delay in the examination of specimens, it was required that all specimens should be sent to the laboratory at the city hall, thus obviating any delay through the culture stations. Specimens left at the city hall as late as midnight are placed in the thermostat immediately, making it possible for a result to be obtained early the next morning.

Diphtheria.—Eight hundred and seventeen cultures have been examined for diphtheria, 387 being in males, and 430 in females. Diphtheria being a disease of children, 282 of these examinations have been made in children under five years of age, 199 in those from five to ten years of age, 125 from ten to twenty and 185 in adults over twenty years. In twenty-six cases the age of the patient was not stated. Three hundred and sixty examinations were made for the diagnosis of the case, ninety-four proving positive, and 266 negative. Of the positive results fifty-six were of cases in which the attending physician's diagnosis of diphtheria was confirmed, eleven in which the clinical diagnosis was tonsilitis, and twenty-seven in which no definite diagnosis was made. Of the 266 negative examinations, thirty-five were obtained in which the clinical diagnosis was diphtheria, 122 in which the diagnosis was tonsilitis, and 109 in which no diagnosis had been made.

Four hundred and fifty-seven cultures were taken for release of patients from quarantine, ninety-five of which were positive, and 362 negative. The importance of taking release cultures is demonstrated by these figures, over fifty per cent. of the patients showing the presence of the bacilli in the throat after the clinical evidence of the disease has disappeared. In five examinations there was no growth upon the serum tube.

Tuberculosis.—One hundred thirty-seven examinations have been made of sputum suspected of containing the tubercle bacillus, twenty-six of which were positive and 111 negative. In thirty cases, a definite diagnosis of this disease had been made by the attending physician, but in four of them the organism could not be detected. In the remainder of the cases, seventy-four were stated as not showing evidence of the disease, and in thirty-three cases no statements were made giving information as to its character. Although printed directions accompany each outfit, telling how the specimen should be obtained, it has not been unusual for specimens to be sent to the laboratory containing only saliva from the mouth with no secretion from the lungs or bronchial tubes. Physicians should be urged to give definite instructions to each patient, relating to the collection of the sputum, for in some instances a negative report would mislead both physician and patient. Consumption, to-day, is recognized as an infectious disease, and all persons afflicted with it should be instructed in the modern methods for preventing its spread. In some cases this is not done by the attending physician, and it would seem wise for your board to require that this disease be reported to you, as other infectious diseases are to-day, and that printed instructions and advice be sent to each patient ill with the disease. The decrease in the death rate of consumption, and the cure of persons afflicted with it, is due to the improved and intelligent manner with which cases are treated, and the prevention of further spread of the disease is a subject which is of importance to all local boards of health.

Typhoid Fever.—Seventy-two examinations of the blood of patients suspected of having typhoid fever have been made, twenty-seven of which proved positive. In twenty-nine cases a positive diagnosis of this disease had been made by the attending physician; in six, it was definitely stated not to be typhoid fever; and in the remainder, no statement was made relating to the diagnosis.

Malaria.—Seven examinations were made of the blood of patients suspected of having this disease, all of which proved negative, and the disease cannot be considered as one of prominence in this city.

Respectfully submitted,

FRANK L. MORSE, M. D.,

Bacteriologist.

REPORT OF INSPECTOR OF ANIMALS AND PROVISIONS.

Somerville, January 1, 1904.

To the Honorable, the Mayor, and the Board of Aldermen:—

Gentlemen,—I submit the following report as inspector of animals and provisions for the year ending December 31, 1903.

I have inspected, examined, condemned, and caused to be destroyed,—3,863 pounds fresh beef, 169 pounds corned beef, 453 pounds veal, 34 calves, 9 livers, 221 pounds fresh pork, 94 pounds mutton, 569 pounds poultry, 1,192 mackerel, 1,263 herring, 1,167 pounds cod and haddock, 65 pounds halibut, 723 pounds pollock, 14 boxes smelts, 181 pounds swordfish, 39 lobsters, 116 crabs, 3 bushels clams, 15 quarts clams, 1 bushel oysters, 212 cabbage, 39 bushels potatoes, 17 bushels sweet potatoes, 11 barrels greens, 13 barrels squash, 4 bushels parsnips, 5 bushels carrots, 5 boxes celery, 14 crates tomatoes, 683 bananas, 54 boxes berries, 15 boxes lemons, 3 barrels and 8 boxes oranges, 8 bushels apples, 6 bushels pears.

Twelve hundred and ninety-three horses have been examined for contagious diseases, of which fifty-one were quarantined, forty-nine being subsequently killed, and two released.

One hundred and forty-five cows kept within the confines of the city have been examined, as required by the state board of cattle commissioners. One, which was quarantined, was afterward killed, it having tuberculosis. All cow barns in the city have been measured.

The bakeries and restaurants throughout the city have been inspected. I find great improvement in them as to cleanliness.

Stores, markets and peddler carts to the number of 1,448 have been examined.

The number of animals killed at the five slaughtering establishments in the city was as follows: 1,127,458 swine, 329,517 sheep, 54,969 calves, 23,494 cattle; total, 1,535,438.

I have performed the duties as agent for the society for the prevention of cruelty to animals to the best of my ability.

Respectfully submitted,

CHARLES M. BERRY,

Inspector of Animals and Provisions.

REPORT OF INSPECTOR OF MILK AND VINEGAR.

Somerville, January 1, 1904.

To the Board of Health:—

Gentlemen,—I herewith submit my report for the year ending December 31, 1903.

I have issued 258 licenses to sell milk, cream, and condensed milk. I have collected and analyzed 575 samples of milk from stores, and 241 from wagons on the street, making a total of 816 samples collected and analyzed.

I found it necessary to send only sixty-one notices that milk was below the standard, which shows that our supply of milk is the best of my three years in the office.

I have collected and tested thirty-six samples of vinegar, and have made no complaints, as they all practically stood the test of Massachusetts standard.

I have inspected butter wagons as I found them on the street. None of these are licensed to sell oleomargarine, but several stores have been so licensed.

Three hundred and ninety stores and 135 wagons have been licensed to sell milk. Five wagons have been licensed to sell cream, one to sell skimmed milk, and two condensed milk. There are about 2,800 cans, or 5,600 gallons of milk delivered to families in the city every day, and about fifty cans of cream.

I have had one butter complaint from a citizen, and found upon analysis it was renovated butter, and so reported to the complainant. He was not sure of the store where he bought it so nothing further was done.

Several citizens have brought samples of milk for analysis, reports of which have been made to them. I wish to repeat my last year's invitation to any citizen who thinks the milk he receives is not up to the standard, to have it tested free of charge by bringing a sample to my office. Milk of the quality required by law is what every one is entitled to receive, and my duty is to see if they get it. Therefore, I ask every citizen's co-operation.

I have paid to the city treasurer the following amounts:—

For licenses	\$129 00
For postage stamps	1 18
For cans and stoppers sold	1 86
Total	<hr/> \$132 04

The city treasurer has received from court fines imposed through the prosecutions of this office the sum of \$188, as follows:—

1 milkman, for coloring milk	\$50 00
1 milkman, for selling poor milk	10 00
6 storekeepers, for selling poor milk, \$10 each	60 00
1 storekeeper, for watering his milk	50 00
1 storekeeper, for selling poor milk	15 00
1 storekeeper, for selling milk without license	3 00

Total	\$188 00
-----------------	----------

making the total returned to the city from this office \$320.04.

I spent eight days in court.

My office, at 310 Broadway, is open every day from 7 A. M. to 10 P. M.

Respectfully,

JULIUS E. RICHARDSON,

Inspector of Milk and Vinegar.

Telephone, 21837 Somerville.

SUPPORT OF POOR DEPARTMENT.

Board of Overseers of the Poor.

EDWARD B. WEST, President.

ALBERT W. EDMANDS, Vice-president.

HERBERT E. MERRILL.

Committees.

ON FINANCE, INVESTIGATION AND RELIEF, AND CITY HOME. — Mr. West,
Mr. Edmands, and Mr. Merrill.

Secretary.

CORA F. LEWIS.

General Agent.

CHARLES C. FOLSOM.

City Physician.

ALVAH B. DEARBORN, M. D.

Warden of "City Home."

J. FOSTER COLQUHOUN.

Matron of "City Home."

MRS. CATHERINE COLQUHOUN.

Office.

City Hall Annex, Highland Avenue.

REPORT OF OVERSEERS OF THE POOR.

OFFICE OF THE OVERSEERS OF THE POOR, }
Somerville, Mass., December 31, 1903. }

To the Honorable, the Mayor, and Board of Aldermen, of the City of Somerville:—

Gentlemen,—According to our usual custom, we herewith submit our annual report for the year 1903.

Owing to the increase in expenditures, especially for the support of the insane, the appropriation amounting to \$21,630 was not sufficient to pay the bills of this account, by some \$1,491.11. The aid to families has been about the same as in 1902, although less coal was given; but the high prices the first of the year more than balance the smaller quantity, making the cost about the same. Families have been aided to dry goods, clothing, boots and shoes, and groceries, in about the same quantities as in 1902. Aid in burials has cost the city about one-half of what it did last year. There have been 218 families aided during the year, comprising 1,119 persons. The city home and Somerville hospital are of great value in the work of the department. Nine state paupers have been committed to the state hospital at Tewksbury.

The amount paid out for the support of the insane poor, including the feeble-minded and dipsomaniacs, has been \$16,651.44. We shall need about one-quarter of this amount for this purpose the next year, owing to the fact that the bills for their support will be paid by the state after January 1, 1904. The last quarter of this year, from October 1 to December 31, however, will have to be provided for in the appropriation of 1904. The law authorizing the state to take charge of the insane January 1, 1904, was passed in 1900, and is as follows:—

1900. Chapter 451.

AN ACT TO PROVIDE FOR THE CARE OF THE INSANE BY THE STATE BOARD OF INSANITY AND TO ESTABLISH THE STATE COLONY FOR THE INSANE.

SECTION 1. The Commonwealth, from and after the first day of January in the year nineteen hundred and four, shall, by the officers and boards authorized thereto, have the care, control and treatment of all insane persons who are now cared for by the Commonwealth, or by any city or town, or by any board of officers thereof, or who may be committed to the institutions of the Commonwealth established by law for the care of the insane; and no city or town shall hereafter establish any asylum or other institution for the care of the insane, nor after said date

maintain any such institution or be liable for the board, care, treatment or act of any insane person. As soon as practicable after the first day of January in the year nineteen hundred and four the state board of insanity may transfer all insane persons who are cared for by the Commonwealth, or by any city or town, or by any board of officers thereof, and who are not cared for in any hospital, asylum or receptacle maintained by the Commonwealth, to such hospital, asylum or receptacle so maintained as the said board of insanity may deem expedient; but nothing contained in this act shall be held to prevent the state board of insanity from placing insane persons at board in accordance with the provisions of law.

The following tables give the details of the work of the department:—

TABLE NO. 1.

Full Support (during the year).

In Somerville city home (men 16, women 11)	27
In private families	3
In Somerville hospital	176
In hospitals in other towns and cities for the sick	40
In Massachusetts school for the feeble-minded	5
Insane persons in private families	1
Insane persons in hospitals	126

TABLE NO. 2.

Full Support (at present time, December 31, 1903).

In Somerville city home (men 12, women 7)	19
Insane in hospitals (we are reimbursed for 10)	100
Insane in private families	1
In hospitals (sane)	16

TABLE NO 3.

Partial Support (Outdoor Relief).

Families	232
Persons aided	1,188
Burials	6
Permits to Tewksbury almshouse	9

TABLE NO. 4.
Reimbursements.

Commonwealth of Massachusetts	\$1,966 05
City of Boston	1,017 08
“ “ Cambridge	371 74
“ “ Chelsea	53 20
“ “ Everett	15 00
“ “ Fall River	151 37
“ “ Gloucester	31 80
“ “ Haverhill	10 00
“ “ Lawrence	17 00
“ “ Lowell	85 07
“ “ Lynn	44 70
“ “ Malden	166 40
“ “ Marlboro	18 00
“ “ Medford	171 00
“ “ Newton	42 00
“ “ Springfield	36 20
“ “ Worcester	36 00
“ “ Woburn	5 20
Town of Andover	23 00
“ “ Belmont	15 00
“ “ Canton	8 50
“ “ Concord	2 00
“ “ Harwich	47 00
“ “ Hingham	3 50
“ “ Medfield	60
“ “ Milford	29 29
“ “ Revere	10 00
“ “ Rockport	42 80
“ “ Saugus	35 00
“ “ South Framingham	27 80
“ “ Wakefield	3 00
Guardians, relatives and individuals	2,863 79
	<hr/>
	\$7,349 09

TABLE NO. 5.

Somerville Hospital (Patients on City Beds).

Patients having settlement in Somerville	70
Patients having settlement in other cities and towns	27
Patients having no settlement (chargeable to state)	79
Total number of patients sent to hospital	176
Money paid hospital by the city for patients settled in Somerville	\$5,000 00
Amount reimbursed to the city and paid to the hospital for patients not settled in Somerville	2,190 87
	<hr/>
Total paid to the hospital	\$7,190 87

TABLE NO. 6.

Population and Gross Expenditures, 1883 to 1903, Inclusive.

Year.	Population (Estimated).	Expenditures.
1883 . . .	27,000 . . .	\$15,959 80
1884 . . .	28,000 . . .	17,272 52
1885 . . .	*29,992 . . .	16,430 32
1886 . . .	32,000 . . .	14,341 83
1887 . . .	34,000 . . .	13,430 89
1888 . . .	36,000 . . .	13,375 98
1889 . . .	39,000 . . .	14,610 92
1890 . . .	*40,117 . . .	15,261 14
1891 . . .	43,000 . . .	15,980 49
1892 . . .	46,000 . . .	17,015 30
1893 . . .	48,000 . . .	17,799 58
1894 . . .	50,000 . . .	19,733 13
1895 . . .	*52,200 . . .	20,755 46
1896 . . .	54,000 . . .	21,999 79
1897 . . .	56,000 . . .	25,681 47
1898 . . .	57,500 . . .	28,522 21
1899 . . .	60,000 . . .	28,924 39
1900 . . .	*61,643 {	Miscellaneous, \$23,697.62 } 29,226 45
		City Home, 5,528.83 }
1901 . . .	63,500 {	Miscellaneous, \$29,171.15 } 35,793 58
		City Home, 6,622.43 }
1902 . . .	65,000 {	Miscellaneous, \$28,667.04 } 36,063 68
		City Home, 7,396.64 }
1903 . . .	67,000 {	Miscellaneous, \$30,470.20 } 38,018.59
		City Home, 7,548.39 }

*Census.

OVERSEERS OF THE POOR OF SOMERVILLE.

Since the Reorganization in 1885.

Hon. Mark F. Burns, chairman ex-officio . . .	1885	1888 inclusive
Colonel Herbert E. Hill	1885	1889 "
Charles S. Lincoln, Esq., chairman	1885	1887 "
Hon. Edward Glines	1885	1887 "
Charles G. Brett, president	1885 April	1893 "
Edward B. West, president	1888 to	date "
Daniel C. Stillson	1888 April	1892 "
Hon. Charles G. Pope, chairman ex-officio . . .	1889	1891 "
Nathan H. Reed, president	1890 April	1894 "
Hon. Wm. H. Hodgkins, chairman ex-officio, .	1892	1895 "
James G. Hinckley	May 1892	1894 "
Albert W. Edmands, now vice-president . . .	May 1893 to	date "
Herbert E. Merrill	May 1894 to	date "
Ezra D. Souther	1895 Feb.	1898 (Died)
Hon. Albion A. Perry, chairman ex-officio . .	1896	1898 inclusive
James H. Butler	March 1898	1899 "
Hon. George O. Proctor, chairman ex-officio, .	1899	

SUPPORT OF POOR DEPARTMENT.

TABLE 7.
Expenditures, in Detail, for the Year 1903.

1903.	Dry Goods.	Board.	Groceries.	Towns and Cities.	Boots and Shoes.	Medicine.	Burials.	Salaries.	Fuel.	Sundries.	Public Institutions.	Somerville Hospital.	Total.
January .	. . .	\$124 28	\$168 11	\$217 42	. . .	\$4 95	. . .	\$324 33	\$154 15	\$63 88	\$4,056 29	\$133 33	\$5,546 74
February .	. . .	31 00	352 27	603 00	\$13 75	4 00	. \$5 00	340 33	40 35	56 78	15 00	133 33	1,594 76
March .	\$3 00	75 36	364 49	69 40	16 25	3 52	40 00	308 33	212 65	111 81	3,831 23	133 33	5,169 37
April .	2 00	161 58	344 76	128 00	. . .	48 62	10 00	308 33	74 85	128 95	132 54	133 33	1,472 96
May .	. . .	30 81	269 31	36 37	11 00	. . .	. . .	308 33	. . .	65 02	175 43	133 33	1,036 80
June .	. . .	79 26	333 57	2 00	. . .	12 00	. . .	308 33	. . .	49 04	3,383 00	133 33	4,300 53
July .	. . .	106 30	242 49	336 47	. . .	. . .	15 00	316 66	. . .	87 51	436 65	133 33	1,674 41
August .	7 00	38 01	284 23	32 16	9 00	1 40	10 00	316 66	. . .	61 30	331 96	133 33	1,225 05
September .	. . .	134 01	199 50	102 70	9 85	. . .	. . .	316 66	. . .	52 88	3,624 52	133 33	4,573 45
October .	. . .	38 01	368 53	84 71	. . .	6 14	. . .	316 66	. . .	53 34	408 87	133 33	1,409 59
November .	. . .	89 01	261 03	24 00	10 75	85	. . .	316 66	108 85	46 78	255 95	133 33	1,247 21
December	5 50	38 01	24 00	. . .	. . .	29 15	. . .	316 72	18 00	63 71	. . .	724 24	1,219 33
Totals .	\$17 50	\$652 84	\$3,512 29	\$1,636 23	\$70 60	\$110 63	\$80 00	\$3,798 00	\$608 85	\$840 95	\$16,651 44	\$2,190 87	\$30,470 20

TABLE NO. 8.

Recapitulation (Miscellaneous).

Appropriations	.	.	.	.	.	.	.	\$21,630 00	
Reimbursements	.	.	.	.	.	.	.	7,349 09	
									<hr/>
Total receipts	.	.	.	.	.	.	.		\$28,979 09
Total expenditures	.	.	.	.	.	.	.		30,470 20
									<hr/>
Account overdrawn	.	.	.	.	.	.	.		\$1,491 11
Net expenditures	.	.	.	.	.	.	.		\$23,121 11

City Home.

Owing to grading the lawns and other permanent work which has been done to improve the grounds during the past season the farm work has been somewhat retarded.

Considering the cold, backward season and short crops of vegetables we have had a very successful season on the farm. Better prices have been received than during 1902, two thousand five hundred and fifty-seven dollars and sixteen cents having been realized from the sale of produce and pork.

During the year four hundred and sixty-six feet of steel wire fence have been built on Broadway. Also, thirteen hundred and seventy-seven feet and six inches of six-foot high wooden picket fence have been built from the bridge on Broadway to the rear of the city home buildings and from the rear of the Irving Russell house along North street and the boulevard to Alewife brook.

The old spring in the meadow has been drained by laying two hundred and thirty-eight feet of six-inch tile pipe, bringing three fourths of an acre more land under cultivation.

The produce raised on this land during the season has practically paid for all the expense incurred in draining the spring.

One hundred feet of six-inch pipe have been laid and a covered cesspool built to take care of the waste water from the wash house.

A driveway with a stone foundation has been built in the rear of the outbuildings with an entrance from North street. All heavy teaming will now be done over this driveway.

The lawns, which were partly graded during the fall of 1902, were brought to grade and seeded down, which adds greatly to the appearance of the grounds.

Three hundred and ninety-eight and five-tenths square feet of artificial stone walk with steps and buttresses have been laid from Broadway to the front entrance and the office door.

Products of Farm.

The following is the amount of produce raised on the farm during the past year, but which does not include the vegetables required for use in the home:—

46,000 roots celery; 11,526 heads lettuce; 16,451 bunches beets; 13,484 bunches radishes; 2,403 bunches onions; 1,342 bunches carrots; 1,608 heads endive; 4,733 cucumbers; 450 summer squash; 213 bushels beet greens; 121 bushels string beans; 107 bushels onions; 409 bushels spinach; 181 bushels dandelions; 94 bushels celery leaves; 6 bushels peppers; 19 bushels beets; 18 bushels peas; 20 bushels tomatoes; 15 bushels carrots; 18 barrels apples; 3,127½ pounds pork, 77 pigs.

TABLE NO. 1.
Permanent Repairs and Fixtures.

Building wooden picket and steel wire fence . . .	\$1,240 95
Laying drain tile, drain pipe and building cesspool . . .	84 20
Granolithic walk	147 15
Grading lawns	224 48
Hot-bed fence and pig pen	25 57
Electric light fixtures	1 76
House furnishings	74 50
New body for manure wagon	96 11
225 feet garden hose	27 00
65 gal. Farmer's Boiler	36 75
1 steel wheelbarrow	11 25
New tools	13 85
Live stock	51 37
Laying water pipe for lawns	40 63
	<hr/>
	\$2,075 57
Living expenses	5,472 82
	<hr/>
Total expenditures	\$7,548 39

TABLE NO. 2.**Reimbursements.**

Commonwealth of Massachusetts (board)	. . . . .	\$15 17
Board of sundry persons, etc.	. . . . .	249 27
Produce and pork sold	. . . . .	2,557 16
Wood (for poor families)	. . . . .	193 75
Freight money returned	. . . . .	3 80
		<hr/>
		\$3,019 15

TABLE NO. 3.

Number weeks' board of inmates	. . . . .	924 3-7
Average weekly cost of inmates to the city (not including fuel and lights)	. . . . .	\$2 65
Number males admitted during 1903	. . . . .	10
Number females admitted during 1903	. . . . .	2
Number males discharged during 1903	. . . . .	8
Number females discharged during 1903	. . . . .	1
Number males supported during 1903	. . . . .	22
Number females supported during 1903	. . . . .	8
Number inmates in Home January 1, 1904	. . . . .	20

TABLE NO. 4.**Living Expenses.**

Groceries and provisions	. . . . .	\$1,491 23
Salaries and wages	. . . . .	2,383 86
Dry goods and clothing	. . . . .	186 36
Boots and shoes	. . . . .	69 06
Medicine	. . . . .	51 50
Shoeing horses	. . . . .	36 25
Hay and grain	. . . . .	500 69
Telephone	. . . . .	49 96
Seeds and fertilizers	. . . . .	119 38
Swill and bedding	. . . . .	162 42
Cash, paid by warden, car fares for warden, inmates and laborers	. . . . .	37 75
Ice	. . . . .	15 15
Sundries	. . . . .	316 78
Repair on wagons, tools, harnesses, and hot- bed sash	. . . . .	53 43
		<hr/>
		\$5,472 82
Credits:—		
Commonwealth of Massachusetts (board)	. . . . .	\$15 17
Board for sundry persons	. . . . .	249 27
Produce and pork sold	. . . . .	2,557 16
Wood for poor families	. . . . .	193 75
Freight money returned	. . . . .	3 80
		<hr/>
		3,019 15
		<hr/>
Net living expenses	. . . . .	\$2,453 67

TABLE NO. 5.

Reimbursements	\$3,019 15
Extra Expenses on Farm.	
Wages of extra help	\$855 19
Feed for one horse	118 92
Seed and fertilizer	119 38
Shoeing one horse	12 08
Repair on wagons, etc.	39 04
Swill and bedding	161 42
	<hr/>
	1,306 03
Balance	<hr/>
	\$1,713 12

TABLE NO. 6.

Property at the Somerville City Home, January 1, 1904.

Land	\$25,500 00
Buildings	5,600 00
Furnishings, stock, tools, provisions, etc.	7,350 78
	<hr/>
	\$38,450 78

TABLE NO. 7.

Recapitulation.

Appropriation	\$4,500 00
Reimbursements	3,019 15
	<hr/>
Total receipts	\$7,519 15
Total expenditures	7,548 39
	<hr/>
Account overdrawn	\$29 24
Net expenditures	\$4,529 24

This report, with tables, is respectfully submitted.

EDWARD B. WEST,	} <i>Overseers</i>
ALBERT W. EDMANDS,	
HERBERT E. MERRILL,	

of the Poor.

REPORT OF THE CITY PHYSICIAN.

OFFICE OF CITY PHYSICIAN, }
January 20, 1904. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—The following is a summary of the work I have performed during the year ending December 31, 1903:—

Thirteen hundred and eleven house visits have been made. Six hundred fifty-five persons were treated at my office. Forty persons were vaccinated. Eleven women were attended in childbirth. One hundred eleven persons have had teeth extracted. Twenty-three visits have been made at the police station. Under the rules of the board of health two hundred and nine cultures for release have been taken in cases of diphtheria.

A hospital for contagious diseases is becoming more and more a necessity. I believe that in not a few instances lives would be saved if the first case of diphtheria or scarlet fever that appears in a household could be removed to the hospital. The lack of proper sanitation in many of the homes, especially of the poor, without doubt increases the mortality.

Many cases should be cared for by a trained nurse. Again, the time of the quarantine would be much less, which is a matter of no small importance. Sometimes the children of two families are kept from school for three or more weeks on account of one case. Such an institution is much needed and would be a blessing to our city. Whatever tends to promote the health and safety of the community should not be neglected. I therefore recommend that a hospital for contagious diseases be established.

Respectfully submitted,

ALVAH B. DEARBORN,

City Physician.

REPORT OF THE CITY ENGINEER.

OFFICE OF THE CITY ENGINEER, }
CITY HALL, SOMERVILLE, January 20, 1904. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—In accordance with the provisions of the city charter, the following report of the work done and expense incurred for the year ending December 31, 1903, by the departments under my charge and supervision, including Engineering, Sewers, Public Grounds, and other public works, is herewith presented.

ENGINEERING DEPARTMENT.

Statement of Expenses, 1903.

Salary City Engineer (including maintenance of team)	\$2,800 00	
Salaries of assistants	8,101 91	
Stakes, tools, and general supplies (outside work)	78 89	
Draughting materials and office supplies (inside work)	115 15	
Maps and binding plans	64 25	
Setting stone bounds for defining street lines	252 19	
Car fares	209 57	
Telephone, postage, and incidentals	96 89	
Transferred to Observatory on Prospect Hill account	303 03	
Total expenditure in the department		\$12,021 88
CREDIT.		
Appropriation	\$11,900 00	
Amount received for making acceptance plans	23 00	
Amount received for inspection services, sewer construction work	3 75	
Amount received from Boston Elevated Railway Co., services rendered	107 80	
Amount received from City of Medford, services rendered	120 23	
Amount received from Metropolitan Park Commission, services rendered	20 00	
		\$12,179 78
Balance unexpended		\$157 90

Classification of Expenditures, Assistants' Salaries.

Sewers,—comprising surveys, estimates, profiles, lines, grades, titles, plans, assessments, and all engineering work relating to sewers	\$2,441 11
Highways,—comprising plans, estimates, titles, profiles, lines and grades, and all other engineering relating to the department	756 66
Sidewalks,—comprising profiles, lines, grades, measurements, titles, costs and assessments	959 38
Bridges and Subways,—comprising surveys, plans and estimates	58 02
Water Works,—comprising lines, grades, locations of mains, gates, hydrants and services, and other matters relating to water department	221 11
Public Grounds,—comprising surveys, plans, estimates, profiles and grades, including laying out of parks and grounds	283 81
Public Buildings,—comprising surveys, estimates, lines and grades, and other work relating to construction	66 04
Street Numbering,—comprising locations of buildings, plans and affixing street numbers on houses	351 82
Street Lines and Grades,—comprising establishing of lines, grades, and miscellaneous data given parties for building and grading	105 91
Middlesex Registry,—comprising copying of plans and abstracts from deeds filed, and examination of titles	131 27
City Survey,—comprising lines, angles, and measurements, calculations of traverses, and locations of division lines and buildings	764 84
Prospect Hill Park,—comprising surveys, calculations, taking of land plans, construction plans, profiles, deeds, and general engineering work in laying out and constructing	760 69
Railway, Telephone, Electric Light, and Gas Light Companies,—comprising grades, plans, profiles, and office notes, locations of poles and conduits	49 74
Stone Bounds,—locating and setting	182 43
Office Work,—comprising records of all locations, indexing, typewriting, calculations, and general draughting	603 16
Miscellaneous Work,—comprising preliminary surveys, designs, sketches, etc., relating to various schemes for different committees	50 74
Vacations and Sickness	315 18
Total	<hr/> \$8,101 91

Office Records and Value of Instruments.

Number of survey note books, sewer permit books, and deed books	250
Number of plans, including sewers, highways, parks, house lots, etc.	6,000
Value of field instruments, tools, and office instruments	\$1,500 00

The total cost of maintaining the city engineer's department since it was established (1872-1903, both years inclusive), has amounted to \$203,020.50.

General Work. The number of assistants employed during the year has varied according to the amount of work, the regular department force being ten and the maximum number employed fourteen.

The office work has been continued on the same general system as in past years, all survey notes and records of sewers, drains, highway work, water works, etc., have been indexed, all plans of estates in Somerville filed at the registry of deeds, East Cambridge, have been copied and indexed, and all new plans of work made in the office recorded for future reference.

Titles have been examined and abstracts from deeds made at the East Cambridge registry for the purpose of assessing on the property owners of estates assessable for the construction of new highways, sidewalks, and sewers; and amounts computed and schedules of assessments made out for the proportional part of the cost of construction.

A number of street names have been changed and new street numbering plans have been made, old plans revised, houses plotted and numbers affixed to buildings throughout the entire city. There are many streets, avenues, courts, and places in the city of the same or very similar name, which should be changed to prevent the confusion and inconvenience now existing.

During the year the department has made plans and established grades for the acceptance under the betterment act, of eight new public streets, a total length of one mile; all of these plans have been copied and filed at the Middlesex registry as required by law. A portion of these streets have been graded and macadamized and assessments levied.

In conjunction with the acceptance and laying out of Clarendon avenue as a public highway by the city, agreements have been executed with the abutting owners of ledge property so that blasting and the removal of stone from this ledge can be carried on under certain restrictions, and when the work is entirely completed the present dangerous and unsightly ledge-hole, over which there has been so much controversy in the past as to blasting rights, will have been improved in appearance and the city's valuation increased in this locality.

A number of plans have been made and photographs taken at the request of the city solicitor, for the various departments, to be used in court cases and hearings where accidents have occurred and the city's interests were involved or damages claimed by reason of some work done by the city.

Surveys and plans have been made for the purpose of acquiring land for new public buildings, and lines and grades given for construction work on new schoolhouses and fire stations.

A large amount of engineering services has been required in making plans and profiles, and laying out and constructing the new park and observation tower on Prospect Hill and new playgrounds in different sections of the city.

Lines and grades have been given for setting 18,273.5 linear feet (3.46 miles) of new edgestone, and the resetting of 11,810.5 (2.24 miles) of old edgestone, and the measurements taken for computing assessments.

7,617.7 square yards of new brick sidewalks and 215.4 square yards of granolithic walk have been laid (about 2.08 miles in length) and 5,856.6 square yards of old brick sidewalks relaid.

5,988 square yards of new paved gutters have been laid and 548 square yards of new brick, concrete, and granite crossings constructed, requiring lines, grades, and measurements. (See tables in this report for cost of work and total lengths of sidewalks constructed in the city.)

The average cost for the year of setting edgestone has been eighty-one and one-half cents per linear foot and laying brick sidewalks ninety cents per square yard.

Lines and grades have been given, measurements taken, and computations made for the laying out and constructing of new streets, the reconstructing and repairing of old streets. In the construction of new streets and sidewalks the department work should be so changed that the city engineer shall keep a tabulated account of the total cost of the entire work, including all measurements and materials used, so that the correct cost is readily obtainable and assessments can be accurately made.

Lines and grades have been given for paving with granite blocks a section of Church street, south of Somerville avenue, an area of 728 square yards.

Lines and grades have been given the water department when requested.

9,480 feet of new mains with hydrants and gates have been located; 144 water services located and sketches made showing the buildings, services, gates, etc., for the water office.

During the year stone bounds have been set in concrete at street intersections and angles, for permanently defining street lines, and there are many more of these bounds to be set in various parts of the city as the yearly appropriation will allow.

The gas, electric light, telephone and street railway companies have filed plans showing locations in the city's streets of mains and tracks laid and poles erected as required by the city ordinances.



THORNDIKE-STREET SUBWAY, WEST SOMERVILLE.

The Boston Elevated Railway Company has been granted permission to lay double tracks in sections of Springfield street for turnouts and when completed there will be less delay on this line. This being a narrow street the roadway is to be paved from curb to curb where the turnouts are laid. Alterations and improvements have been made in the track locations at the junction of Cross street and Broadway, and the double track location rebuilt with heavy rails on Broadway, from the Charlestown line to Winter Hill, the grade being materially changed through the parkway. A petition is still pending before the board of aldermen for a double track location in Mystic and Middlesex avenues from the Charlestown line to the Fellsway boulevard, and extending to Wel'ington and Medford.

The laying of these tracks will necessitate the filling to grade, macadamizing, and constructing of these avenues to their full width, sixty-six and sixty feet, respectively, at a cost of about \$7,400.

Bridges, Subways, and Grade Crossings. The new bridge over the Boston & Maine railroad at Sycamore street, commenced in 1902, has been completed, and at School street a new bridge has been constructed the full width of the highway, fifty feet. Granite abutment walls were built in new locations, lengthening the bridge and necessitating the changing of the grade of the city's highway; the railroad company bearing the total expense of constructing these bridges.

Another highway bridge should be constructed over the line of this railroad, at Lowell street, a most important cross-town street in the centre of the city. Probably satisfactory arrangements can be made with the railroad company for the building of this bridge in the near future.

A new bridge has been constructed by the metropolitan park commission over Mystic river, on the line of the Fellsway boulevard and Middlesex avenue. This bridge is about 515 feet long in Somerville, and seventy feet wide, with a roadway fifty-four feet in width and equipped with a retractile draw. The boulevard in Somerville between this bridge and Mystic avenue is to be widened.

A subway has been constructed for foot passengers under the Lexington and Arlington branch of the Boston and Maine railroad at Thorndike street, West Somerville. This under-pass is wholly within the railroad location, being eighty-five feet long, eight feet wide, and seven feet high, inside dimensions, constructed mainly of Portland cement concrete with I beams supporting the roof. The side walls are finished with opalite tile and the floor and steps of granolithic construction with iron hand-rails and guards at the entrances.

The contract was awarded by the Boston and Maine railroad company and the work completed under the supervision and in-

spection of the city's engineering department; the total cost of the structure amounting to about \$3,800, the city bearing the total expense.

On the Fitchburg division of the Boston and Maine railroad, there are nine grade crossings within the city limits, a number of which are dangerous and should be abolished as speedily as possible. The city has a petition pending before the courts in reference to the abolition of these grade crossings.

Two of these crossings, at Somerville avenue and Medford street, on account of their location must be changed at the same time, and will require a large expenditure of money and extensive alterations in streets, railroads, buildings, and other property in the vicinity, involving the interests of many parties; the other seven crossings could be abolished independently of the Somerville avenue and Medford street work.

There are also six grade crossings on the line of the Lexington and Arlington branch of the Boston and Maine railroad in Somerville, where any contemplated change in grade would necessitate the treatment of all these crossings at one time and require the co-operation of the city of Cambridge.

The past year an act was passed by the Legislature authorizing the cities of Somerville and Cambridge and the towns of Arlington and Belmont to improve the condition of Alewife brook and streams above.

After a number of conferences with the representatives of these cities and towns, Somerville's engineer was selected to present a plan for this proposed improvement and surveys. Plans and estimates and considerable engineering work has been done and data presented to the Metropolitan park commission to be used in preparing plans and estimates for the proposed improvement of a large district adjacent to Mystic river and Alewife brook, to be treated in a manner similar to the Charles river dam scheme. A report and plan will probably be presented early the coming year.

Streets Accepted as Public Highways in 1903 under the Betterment Act.

NAME OF STREET.	WARD.	FROM	TO	Width in Feet.	Length in Feet.	Date of Acceptance.
Clarendon ave. . .	7	Broadway . . .	Cambridge line .	40	1,217	June 29
Dane ave. . . .	2	Dane st. . . .	Leland st. . . .	30	569	Nov. 13
Durham st. . . .	2	Beacon st. . .	Hanson st. . . .	40	423	Sept. 25
Eastman ter. . .	6	Highland ave. .	Southwesterly .	40	296	Nov. 25
Hillside park . .	3	Walnut st. . .	Westerly	40	196	Dec. 30
Knowlton st. . .	1	Tufts st. . . .	Northerly	40	461	Aug. 17
Packard ave. . .	7	Broadway . . .	Professors row .	60	1,758	Nov. 13
Pearl st.	1	Crescent st. . .	Mt. Vernon st. .	37	341	Dec. 30
Total . . . . .	. . . .	. . . . .	(0.996 miles)	..	5,261	

Table Showing Sidewalks Constructed (not exceeding one-half cost assessed on abutters) and Paved Gutters Laid in Connection Therewith in 1903.

STREET.	WARD.	SIDE.	FROM	To	WIDTH OF SIDEWALK IN FEET.	MATERIALS.		TOTAL COST.	PAVED GUTTERS.	
						Gravel and Edgestones. Lineal Feet.	Bricks. Sq. Yards.		Sq. Yards.	Cost.
Adrian	2	Southerly	Marion st.	Joseph st.	6.67	.....	402.6	\$380 21	.....	.....
Bolton	2	Both	Houghton st.	Oak st.	7.67	783.4	.....	702 99	261	\$500 98
Burnside avenue	6	Southeasterly	Elm st.	Summer st.	6.67	.....	500.3	464 68	.....	.....
Carlton	2	Both	Somerville ave.	Lake st.	6.67	630.3	417.4	812 43	210	340 12
Cedar	6	Northwesterly	Highland ave.	Spencer ave.	6.67	199.6	.....	180 13	67	111 35
Church (south)	2	Both	Somerville ave.	Lake st.	6.67	649.7	.....	514 26	54	103 52
Claremon	7	Northwesterly	Holland st.	Mead st.	6.67	.....	388.4	340 60	.....	.....
Clifton	7	Both	Appleton st.	Morrison ave.	6.67	.....	292.1	265 47	.....	.....
College avenue	7	Northwesterly	Kenwood st.	Broadway	10.00	.....	450.6	397 59	.....	.....
Crocker	6	Northwesterly	Highland ave.	Crown st.	6.67	.....	358.6	322 67	.....	.....
Gorham	7	Southeasterly	Holland st.	Howard st.	6.67	746.6	.....	572 11	249	469 30
Grant	4	Northwesterly	Broadway	Jaques st.	6.67	.....	343.4	317 86	.....	.....
Henry avenue	6	Both	Highland ave.	Lexington ave.	6.67	612.8	.....	504 66	204	413 95
Houghton	2	Both	Springfield st.	Cambridge line	6.67	974.7	.....	795 56	325	662 30
Hudson	5	Southwesterly	Lowell st.	To and including estate 136	6.67	.....	468.7	462 66	.....	.....
Ibbetson	6	Both	Somerville ave.	Lowell st.	6.67	877.1	.....	782 51	341	672 87
Jay	7	Southeasterly	Holland st.	Howard st.	6.67	536.5	.....	416 81	179	304 73
Kidder avenue	7	Northeasterly	College ave.	Powder House ter.	6.67	330.2	239.2	495 34	110	223 67
Kingston	7	Both	Meacham road	Cambridge line	6.67	841.4	.....	683 49	280	534 79
Lincoln avenue	1	Northeasterly	Lincoln st.	Mt. Vernon st.	5.00	252.4	161.4	322 80	70 }	335 82
Lincoln avenue	1	Southwesterly	Lincoln st.	Mt. Vernon st.	5.00	423.7	.....	347 70	118 }	1,128 69
Line	2	Easterly	Washington st.	Cambridge line	5.50	1,751.4	.....	1,442 66	584	.....
Lowell	6	Southeasterly	Highland ave.	Opposite Crown st.	6.67	.....	398.1	334 00	.....	.....
Maple	1	Both	Poplar st.	Medford st.	5.00	1,096.8	.....	895 43	304	823 87
Partridge avenue	5	Both	Medford st.	Vernon st.	7.67	1,984.4	.....	1,577 96	772	1,195 00
Pembroke	5	Both	Central st.	Sycamore st.	6.67	842.5	.....	713 30	281	369 27
Porter	6	Southeasterly	Highland ave.	Crown st.	7.50	.....	385.2	361 88	.....	.....
Robinson	5	Southerly	Ames st.	Bartlett st.	6.67	.....	360.0	289 83	.....	.....
School	3	Northwesterly	Somerville ave.	Landers st.	6.67	195.6	148.9	290 75	65	138 80
Tennyson	5	Southeasterly	Pembroke st.	Medford st.	6.67	386.2	.....	314 11	129 }	335 59
Tennyson	5	Northwesterly	Pembroke st.	Medford st.	6.67	398.1	.....	300 38	133 }	174 85
Thorndike	7	Both	Arlington Branch R. R.	Kingston st.	6.67	189.9	.....	141 40	63	.....
Thurston	5	Southerly	Medford st.	Richdale ave.	6.67	.....	211.5	187 96	.....	.....
Tower	6	{ Westerly	Highland ave.	Hospital lot	6.67	.....	537.5	486 07	.....	.....
Tower	6	{ Easterly	Highland ave.	Crown st.						
Trull	5	Westerly	In front Somerville Hospital	Crown st.	6.67	282.3	155.0	450 92	110	276 76
Veazie	4	Southeasterly	Medford st.	Vernon st.	6.67	1,037.4	.....	868 19	346	669 11
Waldo	5	Both	Walnut st.	Bradley st.	5.83	723.9	.....	565 16	241	436 22
Wesley	4	Both	Highland ave.	Hudson st.	6.67	.....	389.8	332 18	.....	.....
William	7	Westerly	Pearl st.	N'E'y line estate No. 20	6.67	.....	218.1	183 85	.....	.....
Willoughby	5	Southwesterly	College ave.	Estate No. 20	6.67	.....	124.3	125 38	.....	.....
		Both	Central st.	Sycamore st.	6.67	846.4	.....	647 38	282	362 07
Totals. (Gravel sidewalk, 3,096 miles. Brick sidewalk, 2,081 miles.)						17,593.3	6,951.1	\$20,591 32	5,778	\$10,643 63
Amount of edgestone and brick sidewalk, including granolithic and paved gutters, laid at intersecting streets and in front of private estates						680.2	882.0		210	

Total assessment, \$10,295.66. Net cost to city, \$10,295.66.

Length of Public Streets in Each Ward.

	Miles.
Ward one	9.033
Ward two	7.591
Ward three	6.907
Ward four	8.808
Ward five	10.083
Ward six	10.755
Ward seven	13.913

Total length of public streets in the city . 67.09

Miles of Edgestone, Brick Sidewalk, and Gravel Sidewalk in Each Ward.

	Edge- stone.	Brick sidewalk.	Gravel sidewalk.
Ward one	15.424	11.594	3.830
Ward two	11.102	4.197	6.905
Ward three	12.784	11.226	1.558
Ward four	12.395	8.463	3.932
Ward five	15.153	9.688	5.465
Ward six	18.207	9.726	8.481
Ward seven	15.490	7.430	8.060

Total miles in the city 100.555 *62.324 38.231

*Includes 1.66 miles granolithic and tar concrete walk.

Table of Street Construction.

	Miles.
*Streets paved with granite blocks	2.75
Streets paved with asphalt . . . . .	.66
Streets paved with vitrified brick (Davis square) . . . . .	.14
**Streets macadamized	63.25
Streets graveled	17.43
Streets unimproved	8.56
Total	<hr/> 92.79

*Also 29 miles (single track) electric railway, granite paved.

**Includes 2.84 miles boulevard.

SEWER DEPARTMENT.**Sewers Construction Account.****STATEMENT OF EXPENSES, 1903.**

Constructing "separate system" sewers (assessments levied) petitioned for	\$276 87	
Constructing "separate system" sewers (no assessments)	3,342 23	
Constructing combined system sewers (assessments levied) petitioned for	2,770 57	
Constructing storm drains	22,375 19	
Constructing 38 catch basins, street drainage	1,887 41	
Final payment on sewers constructed in 1902	1,189 18	
Work and materials furnished other departments	63 38	
Sundry expenses and abatements	52 00	
Materials on hand December 31, 1903	686 29	
Total		\$32,643 12
CREDIT.		
Balance unexpended December 31, 1902	\$4,288 29	
Appropriation, 1903	25,000 00	
Sewers constructed in 1903, assessments levied	2,850 49	
Amounts received from other departments	133 62	
Reserves on contracts, due in 1904	1,060 66	
Materials on hand December 31, 1902	684 64	
		\$34,017 70
Balance unexpended		\$1,374 58

In the construction of sewers the past year a portion of the work has been done by the city, employing day labor, and the remainder by contractors. The "separate system" sewers (those built for house drainage only) have been extended during the past year in various streets in different sections of the city, and this work should continue yearly, as the appropriation will allow, until all flooded areas in the city have a new sewerage system; all house drains in these districts should be re-connected with the new sewers as soon as built.

One of the main lines has been extended on the southwesterly side of Beacon street, from Museum street to Harris street, about 1,403 feet of ten-inch pipe being laid. Another main has been extended on the southerly side of Somerville avenue, from the Fitchburg railroad crossing easterly, about 346 feet of twelve-inch pipe being laid to take the drainage from one of the slaughtering houses. Separate system sewers have also been laid in College avenue and Elmwood terrace. In Maple street the old sewer has been converted into a separate system sewer.

Sewers on the "combined system" have been built and extended in Highland road, Lexington avenue, Munroe street, Osipee road, Packard avenue, and Teele street, Powder House boulevard, and Winslow avenue.



VIEWS—STORM DRAIN OUTLET,
MIDDLESEX AVENUE, 10 FEET X 7.5 FEET.



An agreement has been executed with the owners of the marsh land lying between Mystic and Middlesex avenues, near Winthrop avenue, whereby the city has obtained a permanent right of way for drainage purposes.

For many years the city has paid an annual rental for the use of an old water course across this private property, and by the construction during the year of a permanent drain in the right of way obtained, the main drainage outlet for the eastern district of the city has been completed.

The new structure built extends from the tide-gate chamber constructed in Middlesex avenue the previous year, southwesterly in Middlesex avenue and across the marsh land in the proposed location of a new street to the junction of Mystic and Winthrop avenues, where it connects with the bell-mouth chamber previously built and takes the drainage from an area of over 400 acres discharging through three large structures at this point.

The new drain is constructed principally of Portland cement concrete re-enforced with expanded metal and I beams in the roof construction, and is ten feet wide, seven and one-half feet high and about 880 feet long, being the largest structure in the city's drainage system.

In connection with this work and on either end of the new structure the tide-gate and bell-mouth chambers have been completed.

A short section of storm drain has been constructed in Vernon street between Glenwood road and Partridge avenue, and a new drain for storm water laid in Maple street.

Drainage has been completed for the Thorndike-street subway, the pond and fountain on Central Hill park, the tower on Prospect Hill park, the Broadway athletic field, the Morse school yard and brick masonry gate chambers constructed for the water department.

Metropolitan Sewer Connections. The city's assessment for the metropolitan system for the past year was \$28,438.09 on construction, and \$18,150.28 for maintenance.

There are ten connections with the north metropolitan sewerage system within the city's limits and four connections through other cities, taking the discharge of the city's entire house drainage system.

The cost of making these main sewer connections has been \$17,870.76 and the amount paid the state to January 1, 1904, on construction account has been \$299,371.93, and for maintenance \$120,860.24, making a total cost to the city to date on account of the construction of the metropolitan sewerage system \$438,102.93.

At the Somerville-avenue and Poplar-street connection with the metropolitan sewer, records compiled from an automatic recording clock placed in the regulator chamber on the combined system, show this outlet to have been cut off as follows:—

Year 1900	completely closed	353	hours, partly closed	114	hours.
" 1901	"	386	"	225	"
" 1902	"	376	"	377	"
" 1903	"	180	"	167	"

Summary of Work. Fourteen new sewers and drains have been constructed during the year, a total length of 6,527.6 feet (1.24 miles) and plans made and assessments levied amounting to \$2,850.49. (See table of sewers.)

The total length of the city's drainage system is 88.36 miles, 17.38 miles being on the "separate system" and 4.68 miles of storm drains, and the entire cost of construction has been about \$1,131,211.00 exclusive of the amount paid the state for the construction and maintenance of the north metropolitan system.

Thirty-eight new catch basins have been constructed on the highways during the year at an average cost of \$49.67 per basin, making a total of 1,266 catch basins in the city for street drainage purposes.

Sewers Maintenance Account.

STATEMENT OF EXPENSES, 1903.

Maintenance of sewers, including cleaning and flushing	\$4,165 50
Maintenance of catch basins, cleaning and flushing	4,447 01
Changing line and grade and repairing man-holes	122 75
Changing line and grade and repairing catch basins	843 47
Inspection and location of house drains	329 70
Rent of water course, between Mystic and Middlesex avenues	300 00
Rebuilding sewers	332 44
New tools and supplies	359 43
Repairs of tools and property	73 70
Cleaning cellars flooded in times of storms,	12 00
Sundry expenses, car fares, telephone, etc.	52 33
Maintenance of sewer department yards and buildings	357 93
Work and materials furnished other departments	212 69
Dredging and flushing Bridge-street sewer outlet at Charles river in Cambridge (4-9 of cost, by an act of the legislature),	1,585 60
Total	\$13,194 55

TABULAR STATEMENT OF SEWERS AND DRAINS BUILT IN 1903.

LOCATION.				ITEMS OF CONSTRUCTION AND COST.																																
NAME OF STREET.	FROM	TO	CONTRACTOR.	MATERIAL EXCAVATED.	Average Cut.	SEWER.		SUB-DRAIN.		Cubic yards Rock Excavation.	Price per cubic yard, Rock.	Manholes.	Average Cost Manholes	Inlets	PIPE SEWER, COST PER LINEAL FOOT.								Total cost.	Assessment.	Cost to City.											
						Size in inches.	Length in feet.	Size in inches.	Length in feet.						Excavating, Re-filling, and Pipe Laying.		Pipe, including Sub-drain where laid.	Inspection.	Miscellaneous.	Lumber.	Average cost per lineal foot.															
															Main Sewer.	Sub-drain																				
*Beacon st.	Kent st.	Harris st.	Charles A. Kelley . .	Sand and gravel . . .	8.3	10	1403.3	5	932.7	.....	.....	5	\$38.50	51	\$0.58	\$0.15	\$0.36	\$0.07	\$0.03	\$.43	\$1.63	\$2,413.52	.....	\$2,413.52									
*College ave.	End of old sewer . .	Near Warner st. . . .	Bartholomew Burke . .	Hardpan	5.7	8	115.1	6	117.5	.....	.....	.....	.....	4	0.39	0.15	0.33	0.04	0.12	.....	1.03	119.05	\$84.38	34.67							
*Elmwood ter.	Elmwood st.	Easterly	Maurice Buttimer . . .	Sand	5.2	8	201.4	5	24.0	.....	.....	1	35.00	10	0.35	0.15	0.20	0.04	0.01	0 01	0.78	157.82	142.16	15.66										
Highland road	End of old sewer . .	Near Frederick ave. .	Bartholomew Burke . .	Clay	7.7	12	71.0	.....	.....	.....	.....	.....	.....	6	Built	at peti	tioners' expense	.....	.....	.....	.....	.....	.....	.....					
Lexington ave.	Hancock st.	Angle	Richard Falvey	Filling and clay . . .	9.6	12	123.2	.....	.....	.....	.....	1	38.08	3	} 0.49	.....	0.36	0.04	.....	.....	1.06	700.66	699.73	0.93					
	Angle	Near Cedar st. . . .	Richard Falvey	Filling and clay . . .	7.8	10	547.8	.....	.....	.....	.....	2	38.08	44																		
Maple st. (storm drain) . . .	Poplar st.	Angle	Charles A. Kelley . . .	Filling and sand . . .	7.0	12	519.6	.....	.....	.....	.....	1	40.75	24	0.48	}	0.45	0.05	0.01	.....	1.05	625.64	.....	625.64						
	Angle	Near Medford st. . .	Charles A. Kelley . . .	Filling and sand . . .	6.6	10	78.2	.....	.....	.....	.....	.....	.....	6	0.45															
*Maple st.	Old sewer changed to	separate system sewer.	. . . . .	. . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Middlesex ave. and	Tide-gate chamber . .	Winthrop ave. extension	Timothy F. Crimmings .	Filling and peat . . .	12.0	} Concrete 10 ft. x 7.5 ft.	880.4	Stone and pipe	1760.8	I beams and expanded metal \$2,118.15	.....	3	29.21	2	\$.80and \$.60 per yard.	.10	0.04	0.44	0 .57	1.60	19.99	17,596.35	Concrete 7,771.29	Brickwork 1,065.80											
Winthrop ave. Ext'n (storm drain)	Middlesex ave. . . .	Mystic ave.	Timothy F. Crimmings .	Filling and peat . . .	12.0																															
Munroe st.	Greenville st. . . .	Westerly	Day labor	Hardpan	7.4	8	114.8	.....	.....	.....	.....	.....	.....	2	0.65	.....	0 23	0.23	0.02	.....	1.14	131.56	43.85	87.71				
Ossipee road	Packard ave.	Westerly	Patrick Burke	Sand and gravel . . .	7.3	10	280.0	.....	128.5	2.0	\$4.56	2	33.75	18	0.28	0.15	} 0.32	0.02	.....	.....	0.87	529.75	528.79	0.96									
	End of above	Near Curtis st. . . .	Patrick Burke	Sand and gravel . . .	6.3	8	327.8	.....	.....	.....	.....	1	33.75	28	0.34	.....																			
Packard ave. and	Powder-house boulevard	Teele st.	William J. McCarthy . .	Hardpan	9.0	12	208.0	.....	.....	.....	.....	1	42.25	11	0.50	.....	0.37	0.03	.....	.....	1.09	1,189.54	1,168.41	21.13					
Teele st.	Packard ave.	Westerly	William J. McCarthy . .	Hardpan and rock . .	6 5	10	330.0	5	150 0	180.0	2.40	1	42.25	24	0.37	0.15	} 0.29	0.02	.....	.....	1.57													
	End of above	Near Curtis st. . . .	William J. McCarthy . .	Hardpan and rock . .	8.2	8	279.5	.....	.....	.....	.....	1	42.25	22	0.37	.....																			
Powder-house boulevard . . .	Curtis st.	Westerly	Charles A. Kelley . . .	Sand and gravel . . .	5.5	8	299.5	.....	.....	19.1	2.50	1	25.60	8	0.30	.....	0.21	0.05	0.01	.....	0.73	219.06	183.17	35.89								
*Somerville ave.	Fitchburg R. R. . . .	Easterly	Daniel A. Dorey	Sand and clay	12.6	12	346.0	5	255.0	30.0	2.00	1	54.60	11	1.45	0.15	0.50	0.21	0.08	.....	2.68	928.71	.....	928.71										
Vernon st. (storm drain) . . .	Glenwood road	Trull st.	Day labor	Hardpan	6.4	15	372.0	.....	.....	.....	.....	.....	.....	4	0.90	.....	0.50	.....	.....	0.03	1.43	531.42	.....	531.42		
Winslow ave.	Extension in Clifton st.	. . . . .	Daniel W. Perry	Filling	3.7	10	30.0	.....	.....	.....	.....	.....	.....	1	Built	at peti	tioners' expense	.....	.....	.....	.....	.....	.....	.....					
Total length and cost of new sewers and drains built in 1903																						\$25,143.08	\$2,850.49	\$22,292.59												
																						6,527.6 (1.24 miles.)														

* Separate system sewers.

Total length of sewers built by the city, January 1, 1904 408,878.3 feet.
Total length of private sewers in the city, January 1, 1904 33,247.0 feet.
Total length of sewers in the city, January 1, 1904 441,825.3 feet, or 83.679 miles.
Total length of storm drains in the city, January 1, 1904 24,731.5 feet, or 4.684 miles.
Total length of the city drainage system, January 1, 1904 88,363 miles.

CREDIT.

Appropriation	\$12,300 00	
Boston Elevated Railway Company, chang- ing line and grade manholes, labor and materials	213 03	
Sale of old hose, rope, iron, etc.	37 55	
Amount received from other city depart- ments, labor and materials	641 69	
Materials on hand December 31, 1902,— lumber	12 00	
	<hr/>	\$13,204 27
Balance unexpended		\$9 72
Value of tools and property used in mainte- nance of sewers		\$809 86

The work and cost of maintaining the city's drainage system increases yearly as new lengths of sewers and storm drains are built and more catch basins added, requiring continuous labor in cleaning, flushing, repairing, etc., to be kept in working order, that the sanitary condition of the city may be maintained at its best.

Over 6,000 cubic yards of material have been removed from catch basins and sewers during the past year, and many blow-off connections from the water mains opened and the sewers flushed. Ninety-seven catch basins have been repaired, grade changed or re-built; twenty-nine manholes, line or grade changed, and ten sewers or storm drains repaired. About one hundred feet of sewer has been re-laid and three new manholes built on old sewers.

During the year 259 permits have been issued to licensed drain layers for connecting buildings with the main sewers, thirty-five being for repairs; all of the work being done under the supervision of the city's inspector. There are about 12,525 private drain connections with the city's drainage system.

The automatic recorder in the regulator chamber at the Somerville-avenue and Poplar-street connection with the metropolitan sewer shows this outlet to have been completely closed for 167 hours and partially closed 180 hours during the year.

Two of the city's largest outlets for storm drainage are through the city of Cambridge into tide water; the one for the southeasterly section of the city, extending through East Cambridge and discharging into Charles river, was constructed many years ago, Somerville paying five-ninths of the cost of construction and has paid five-ninths of the cost of maintenance of this outlet for nearly thirty years, under an act of the legislature. This matter should be considered and re-adjusted on a more equitable basis, the prevailing conditions being far different from what existed many years ago, when the present act was passed and would require the passage of a new act by the legislature authorizing a change.

PUBLIC GROUNDS DEPARTMENT.

The department covers a varied line of work, including the designing, laying out, and constructing of new parks, boulevards and drives, athletic fields and smaller playgrounds, the care and maintenance of all the grounds after completion, the control of all the various athletic games on the different playgrounds, the purchasing of all supplies and a general supervision, at present, over sixteen separate parcels of land located in all parts of the city, amounting to about fifty-eight acres, and a boulevard one and one-third miles in length.

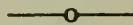
New Work. The land previously purchased for park purposes on Prospect Hill and partially laid out has been practically completed during the year. The roadway has been finished, walks graded, steps built, and beds of shrubbery and trees planted.

An observation tower has been constructed on top of a portion of the old original hill, left at its highest elevation, opposite Greenville street. This tower is built of rock-faced, Deer Isle granite laid in broken-ashlar masonry, the elevation of the top floor being 161.8 feet above mean low tide. The corner stone was laid July 7, 1903, and the park was dedicated with appropriate exercises on October 29, 1903.

This park will always be of historical interest on account of the encampment of soldiers on this hill both in the revolutionary and civil wars, and bronze tablets with inscriptions of historical events (prepared by the Somerville Historical Society) have been erected.

The inscription on the tablet placed in the tower is as follows:—

THIS TABLET IS ERECTED
IN MEMORY OF THE
SOLDIERS OF THE REVOLUTION
AND OF THE CIVIL WAR
WHO ENCAMPED ON
PROSPECT HILL
AND OF THE BANNERS
UNDER WHICH THEY
VALIANTLY FOUGHT.



THIS TOWER AND PARK
DEDICATED OCTOBER 29, 1903.

Another tablet placed on the face of the granite retaining wall at the base of the tower has five inscriptions, as follows:—

THE AMERICAN ARMY UNDER GENERAL PUTNAM
ON JUNE 17, 1775
WITHDREW FROM BUNKER HILL TO THIS HEIGHT
AND HERE ERECTED THE
CITADEL
THE STRONGEST WORK
IN THE BESIEGING LINES OF BOSTON
AND WHICH FOR NINE MONTHS WITHSTOOD
THE BRITISH BOMBARDMENT
JUNE 17, 1775, TO MARCH 17, 1776.

HERE ON JULY 18, 1775
WAS RAISED AMID GREAT REJOICING THE FLAG
PRESENTED TO GENERAL ISRAEL PUTNAM
AND HIS HEROIC SOLDIERS,
BEARING THE MOTTO OF CONNECTICUT
"QUI TRANSTULIT SUSTINET"
AND OF MASSACHUSETTS, "AN APPEAL
TO HEAVEN."

FROM THIS EMINENCE
ON JANUARY 1, 1776
THE FLAG OF THE UNITED COLONIES,
BEARING THIRTEEN STRIPES AND THE CROSSES
OF SAINT GEORGE AND SAINT ANDREW,
FIRST WAVED DEFIANCE TO A FOE.

"THE FLOWER OF THE BRITISH ARMY"
PRISONERS OF WAR
WHO SURRENDERED AT SARATOGA
WERE QUARTERED ON THIS HILL
FROM NOVEMBER 7, 1777, TO OCTOBER 15, 1778
GUARDED BY AMERICAN TROOPS
UNDER GENERAL WILLIAM HEATH.

ON THIS HISTORIC HILL
ANSWERING THEIR COUNTRY'S CALL
IN 1862
ENCAMPED THE SOLDIERS OF SOMERVILLE
WHOSE RECORD OF PATRIOTISM AND FORTITUDE
IN THE CIVIL WAR
IS WORTHY OF HIGHEST HONOR
AND COMMEMORATION.

Prospect Hill Park.**COST OF CONSTRUCTION, 1903.**

Completion of grading	\$593 35	
Steps and concrete walks	267 99	
Trees, shrubs, and planting	343 85	
	<hr/>	
	\$1,205 19	
Less labor and teaming charged to Public Grounds account, for which credit was received	72 25	
	<hr/>	\$1,132 94
CREDIT.		
Balance from 1902	\$1 34	
Appropriation, 1903	1,000 00	
Transfer from Public Grounds, Land on Prospect Hill, account	131 60	
	<hr/>	\$1,132 94
		<hr/>

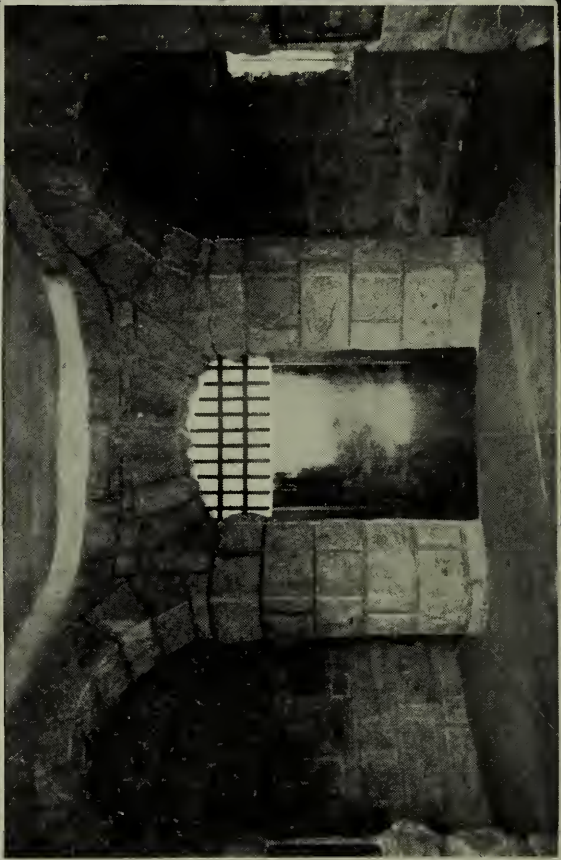
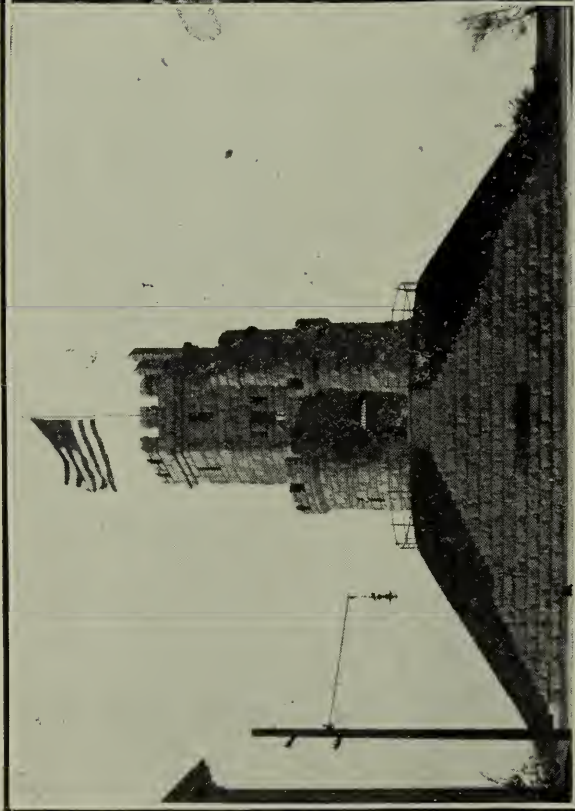
Construction of Historical Building and Observation Tower on Prospect Hill Park.

Rough granite delivered	\$1,875 57	
Labor, cutting and laying granite	4,753 33	
Sand and materials used	624 61	
Floors, stairs, doors, etc.	1,452 65	
	<hr/>	
	\$8,706 16	
Less labor and materials charged to other accounts, for which credit was re- ceived	603 13	
	<hr/>	\$8,103 03
CREDIT.		
Appropriation	\$7,000 00	
Transfer from Public Grounds account	800 00	
Transfer from City Engineer account	303 03	
	<hr/>	\$8,103 03
		<hr/>

On Central Hill park a rockery and basin with two smaller drinking fountains have been constructed with money left under the will of Joseph F. Wilson. The rockery is composed of irregular shaped rock cemented together in the form of a pyramid, from which many streams of water spout into a pond at the base, and so constructed that it can be illuminated by electric lights when desired. Shrubbery is to be added for a background the coming spring. The cost of the work follows:—

Wilson Memorial.**COST OF CONSTRUCTING ROCKERY, BASIN, AND FOUNTAINS ON CENTRAL HILL PARK.**

Rocks and teaming	\$526 03	
Mason work and labor	441 68	
Cement, sand, bricks, iron work	122 06	
Water pipes and drains	157 97	
Granolithic and concrete	756 00	
Electrical work and plumbing	336 26	
Bronze tablet	35 00	
	<hr/>	\$2,375 00



VIEWS OF OBSERVATION TOWER, PROSPECT HILL PARK.

A small area at the corner of Poplar street and Joy street (the old Bennett school lot) has been put in use as a playground for the children; the old schoolhouse has been removed, the lot graded and swings, tilts, etc., added.

At Lincoln park a large portion of the old clay pit has been filled with ashes and other material, a straight-away running track completed and a new fence, ten feet in height, erected along the westerly boundary of the park for the protection of the adjoining property.

A system of under-drains has been laid for taking care of the surface and ground water at the city's athletic field on Broadway, near Powder House square; and on Central Hill park new steps and hand rails have been placed at the Medford-street and Walnut-street entrances.

Table Showing Total Cost of Principal Parks as Constructed.

(Exclusive of maintenance.)

	Broadway Park. (15.9 acres.)	Central Hill Park. (13.1 acres.)	Nathan Tufts Park. (4.5 acres.)	Lincoln Park. (8.3 acres.)	Prospect Hill Park. (2.6 acres.)	W. Somer- v'leAth. Fld. (4.4 acres.)
Cost of land purchased for park purposes.	\$126,257 10	\$104,186 00	\$19,424 55	\$37,592 92	\$48,964 91	
First cost of laying out and constructing.	86,138 57	31,624 70	33,404 83	15,609 70	16,631 60	3,246 05
Construction of Observation tower.					8,103 03	
Totals . . .	\$212,395 67	\$135,810 70	\$52,829 38	\$53,202 62	\$73,699 54	\$3,246 05

Total expenditure for the six principal parks = \$531,183.96.

Maintenance Account.

STATEMENT OF EXPENSES.

Broadway Park (15.9 acres):—

Maintenance of grounds and general care

of property \$1,608 88

Tools and supplies 73 85

Repairing tools and property 72 75

Plants, flowers, bulbs, etc. 366 05

\$2,121 53

Broadway Parkway (1.4 acres):—

Maintenance of grounds \$184 23

Plants, flowers, etc. 90 00

274 23

Amount carried forward \$2,395 76

Amount brought forward		\$2,395 76
Central Hill Park (13.1 acres):—		
Maintenance of grounds and general care of property	\$1,354 64	
Tools and supplies	88 68	
Repairing tools and property	20 48	
New steps and hand rails	260 60	
Plants, flowers, bulbs, etc.	287 79	
		2,012 19
Prospect Hill Park (2.6 acres):—		
Maintenance of grounds	\$1,644 93	
Grading	443 94	
Tools and supplies	106 89	
Repairing tools and property	33 35	
		2,229 11
Lincoln Park (8.3 acres):—		
Maintenance of grounds and general care of property	\$1,747 71	
Tools and supplies	44 00	
Repairing tools and property	57 97	
New fences	404 90	
New running track	134 03	
Plants, flowers, etc.	64 64	
		2,453 25
Tufts Park (4.5 acres):—		
Maintenance of grounds and general care of property	\$899 75	
Tools and supplies	20 34	
Repairing tools and property	24 75	
Plants, flowers, bulbs, etc.	83 26	
		1,028 10
Paul Revere Park:—		
Maintenance of grounds		8 50
Broadway Athletic Field, Tufts College land (4.4 acres):—		
Maintenance of grounds and care of property	\$338 62	
Drainage of ball field	99 21	
Tools and supplies	5 05	
Repairing property	45 91	
		488 79
Playgrounds, Glen street, corner Oliver street (0.9 acre):—		
Maintenance of grounds		10 00
Playgrounds, Poplar street, corner Joy street (0.4 acre):—		
Laying out and grading	\$190 50	
Seats, swings, etc.	75 47	
		265 97
Playgrounds, Webster avenue, near Cam- bridge line (0.2 acre):—		
Maintenance of grounds		8 00
Amount carried forward		\$10,899 67

Amount brought forward		\$10,899 67
Playgrounds, Somerville avenue, corner Kent street (0.8 acre):—		
Maintenance of grounds	\$44 00	
Repairing property	119 07	
		<hr/> 163 07
Playgrounds, Belmont street, near Summer street (0.4 acre):—		
Maintenance of grounds	\$56 50	
Plants, flowers, bulbs, etc.	50 00	
		<hr/> 106 50
Playgrounds, Broadway, corner Cedar street (4.2 acres):—		
Maintenance of grounds		75 86
Playgrounds, College avenue, opposite Morrison avenue (0.4 acre):—		
Maintenance of grounds		27 00
Cemetery, Somerville avenue (0.7 acre):—		
Maintenance of grounds	\$39 50	
Repairs of property	25 80	
		<hr/> 65 30
Powder House Boulevard (1 1-3 miles long):—		
Maintenance of roadway and walks		69 14
Incidentals		39 40
		<hr/>
Total expenditure maintenance (58.2 acres, 1 1-3 miles boulevard)		\$11,445 94
CREDIT.		
Appropriation	\$10,500 00	
Amount received from other departments	595 30	
Boston Elevated Railway Company, proportional park maintenance Broadway Parkway (2 years)	100 00	
Sundry persons, part cost of improvements	251 00	
		<hr/> 11,446 30
Balance unexpended		\$0 36
Value of tools and property used in maintenance of grounds	\$1,500 00	

The principal parks, Broadway, Central Hill, Prospect Hill, Lincoln, and Tufts, have been policed by regular officers from the police department during the summer months. Trees and shrubs have been added, bulbs, plants, and flowers furnished in their seasons and skating provided during the winter.

Three ball fields, out-doors gymnasium, bicycle track, tennis courts, etc., have been kept in condition and used constantly throughout the year by various athletic teams.

The Powder House boulevard has been maintained at small expense and a number of buildings have been erected on this driveway the past year.

The remaining portion of the field at the corner of Broadway and Cedar street should be graded and the Glen-street grounds enlarged by additional land in the rear, making a better proportioned playground, whenever an appropriation is available.

APPENDED TABLE.

Following this report is a table giving names of all streets in the city, public and private, lengths, widths, and the total mileage; in the 1901 report a table was given showing the locations and names of public squares in the city.

ERNEST W. BAILEY,
City Engineer.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Abdell pl. . . .	Somerville ave. .	Southwesterly . .	Private.	25	....	203
Adams	Broadway	Medford st. . . .	Public.	40	900	....
Adrian	Marion st. . . .	Joseph st. . . .	Public.	40	579	....
Albion pl. . . .	Albion st. . . .	Northeasterly . .	Private.	10	....	166
Albion ct. . . .	Albion st. . . .	Southwesterly . .	Private.	16	....	116
Albion	Central st. . . .	Cedar st. . . .	Public.	40	2,742	....
Albion	Broadway	Medford line . .	Private.	50	....	100
Albion ter. . . .	Albion st. . . .	Southwesterly . .	Private.	25	....	100
Aldersey	Walnut st. . . .	Vinal ave. . . .	Public.	40	508	....
Aldrich	Pearl st. . . .	B. & L. R. R. . .	Public.	40	611	....
Alfred	Broadway	Medford line . .	Private.	50	....	50
Allen	Somerville ave. .	Charlestown st. .	Private.	25	....	680
Allen ct. . . .	Park st. . . .	Northwesterly . .	Private.	20	....	150
Alpine	Cedar st. . . .	Southeasterly . .	Private.	30	....	670
Alpine	Alpine st. . . .	Lowell st. . . .	Public.	40	688	....
Alston	Cross st. . . .	Shawmut pl. . . .	Public.	40	567	....
Ames	Bartlett st. . . .	Robinson st. . . .	Public.	40	580	....
Appian way . . .	Talbot ave. . . .	Professors row . .	Private.	60	....	250
Appleton	Willow ave. . . .	Clifton st. . . .	Public.	40	510	....
Appleton	Clifton st. . . .	Liberty ave. . . .	Private.	40	....	120
Arlington	Franklin st. . . .	Lincoln st. . . .	Public.	40	440	....
Arnold ave. . . .	Porter st. . . .	Southeasterly . .	Private.	15	....	127
Arnold ct. . . .	Beacon st. . . .	Northeasterly . .	Private.	10	....	115
Arthur ct. . . .	Linden st. . . .	Easterly	Private.	about 10	....	100
Arthur	Broadway	Bonair st. . . .	Public.	40	438	....
Ash ave. . . .	Meacham st. . . .	Northeasterly . .	Private.	40	....	705
Ashland	Summer st. . . .	Sartwell ave. . . .	Public.	30	478	....
Atherton	Central st. . . .	Beech st. . . .	Public.	40	264	....
Auburn ave. . . .	Cross st. . . .	B. & L. R. R. . .	Private.	30	....	600
Austin	Broadway	Mystic ave. . . .	Public.	40	680	....
Autumn	Broadway	Bonair st. . . .	Private.	20	....	420
Avon	School st. . . .	Central st. . . .	Public.	40	1,360	....
Avon pl. . . .	Cross st. . . .	B. & L. R. R. . .	Private.	25	....	150
Banks	Elm st. . . .	Summer st. . . .	Public.	40	639	....
Bartlett	Vernon st. . . .	Broadway	Public.	40	1,550	....
Bartlett	Washington st. .	Southerly	Private.	20	....	200
Barton	Broadway	Russell road. . .	Private.	40	....	382
Bay State ave. . .	Broadway	Fosket st. . . .	Private.	40	....	1,197
Beach ave. . . .	Webster ave. . .	Columbia st. . . .	Private.	about 20	....	200
Beacon pl. . . .	Beacon st. . . .	Northeasterly . .	Private.	15	....	200
Beacon	Cambridge line .	Somerville ave. .	Public.	66	6,100	....
Beacon ter. . . .	Somerville ave. .	Northeasterly . .	Private.	24	....	110
Bean's ct. . . .	Cutter st. . . .	Southeasterly . .	Private.	16	....	100
Beckwith cir. . .	Beacon st. . . .	Southwesterly . .	Private.	20	....	120
Bedford	South st. . . .	Cambridge line .	Public.	30	165	....
Beech	Somerville ave. .	Spring st. . . .	Public.	40	800	....
Bellevue ter. . .	Albion st. . . .	Northeasterly . .	Private.	20	....	90
Belknap	Broadway	Russell road. . .	Private.	40	....	449
Belmont	Somerville ave. .	Highland ave. . .	Public.	40	2,175	....
Belmont pl. . . .	Belmont st. . . .	Southeasterly . .	Private.	25	....	175
Benedict ave. . .	Broadway	Benedict st. . . .	Private.	20	....	200
Benedict	Union st. . . .	Austin st. . . .	Public.	40	600	....
Bennett ct. . . .	Bennett st. . . .	Prospect st. . . .	Private.	10	....	100
Bennett	Prospect st. . . .	Bennett ct. . . .	Private.	40 to 25	....	400
Benton road . . .	Summer st. . . .	Hudson st. . . .	Public.	40	1,208	....
Berkeley	School st. . . .	Central st. . . .	Public.	40	1,360	....
Berwick	Lawrence st. . .	Northwesterly . .	Private.	20	....	170
Bigelow	Boston st. . . .	Munroe st. . . .	Public.	50	208	....
Billingham . . .	Broadway	William st. . . .	Public.	40	563	....
Bishop's pl. . . .	Glen st. . . .	Easterly	Private.	10	....	75
Blakeley ave. . .	Winthrop ave. . .	Cross st. . . .	Private.	40	....	630
Bleachery ct. . .	Somerville ave. .	Fitchburg R. R. .	Private.	30	....	450
Bolton	Oak st. . . .	Houghton st. . .	Public.	40	476	....
Bonair	Cross st. . . .	Walnut st. . . .	Public.	40	1,470	....
Bond	Broadway	Jaques st. . . .	Public.	40	640	....
Bonner ave. . . .	Washington st. .	Columbus ave. . .	Public.	40	450	....

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Boston ave. . .	Medford line . .	Mystic river . .	Public.	60	910	....
Boston ave. . .	Broadway . . .	Medford line . .	Public.	50	80	....
Boston ave. . .	Broadway . . .	Highland road . .	Private.	65	....	290
Boston ave. . .	Highland road . .	Easterly angle . .	Private.	50	....	655
Boston ave. . .	Angle southerly	Morrison ave. . .	Private.	40	....	1,025
Boston	Washington st. .	Prospect Hill ave.	Public.	45	630	....
Boston	Prospect Hill av.	Walnut st. . . .	Public.	40	1,250	....
Bow	Union sq. . . .	Wesley sq. . . .	Public.	60	600	....
Bow	Wesley sq. . . .	Somerville ave. .	Public.	50	500	....
Bowdoin	Washington st. .	Lincoln park . .	Public.	40	341	....
Bowers ave. . .	Cottage ave. . .	Elm st.	Private.	24	....	288
Bow St. pl. . .	Bow st.	Northwesterly . .	Private.	40	....	300
Bradford ave. .	School st. . . .	Southeasterly . .	Private.	40	....	150
Bradley	Pearl st.	Walter st. . . .	Public.	40	762	....
Brastow ave. .	Lowell st. . . .	Porter st. . . .	Public.	40	686	....
Bristol road . .	Broadway	Medford line . .	Private.	40	....	98
Broadway . . .	Charlestown line	Cross st.	Public.	100	2,590	....
Broadway . . .	Cross st.	Marshall st. . .	Public.	100 to 200	2,060	....
Broadway . . .	Marshall st. . .	Main st.	Public.	100	1,570	....
Broadway . . .	Main st.	Top of hill . . .	Public.	100 to 90	1,030	....
Broadway . . .	Top of hill . . .	Albion st. . . .	Public.	90	2,540	....
Broadway . . .	Albion st. . . .	Willow ave. . . .	Public.	90 to 70	1,030	....
Broadway . . .	Willow ave. . . .	Paulina st. . . .	Public.	70	3,250	....
Broadway . . .	Paulina st. . . .	Arlington line . .	Public.	65-60-65	3,220	....
Broadway pl. .	Broadway	Southwesterly . .	Private.	22	....	250
Bromfield road	Warner st. . . .	Professors row .	Private.	40	...	1,260
Brook	Glen st.	Cross st.	Public.	40	500	....
Browning road .	Sycamore st. . .	Central st. . . .	Public.	40	679	....
Buckingham . .	Beacou st. . . .	Dimick st. . . .	Public.	40	300	....
Burnside ave. .	Elm st.	Summer st. . . .	Public.	40	720	....
Caldwell pl. . .	Washington st. .	Southerly	Private.	20	....	210
Calvin	Beacon st. . . .	Dimick st. . . .	Private.	40	....	250
Calvin	Dimick st. . . .	Washington st. .	Private.	30	....	395
Cambria	Central st. . . .	Benton road . . .	Public.	40	488	....
Cameron ave. .	Holland st. . . .	Cambridge line .	Public.	60	1,000	....
Campbell pk. . .	Meacham rd. . .	Kingston st. . . .	Public.	40	399	....
Campbell Pk. pl.	Kingston st. . .	Arlington Br. R.R.	Private.	20	....	84
Carlton	Somerville ave. .	Lake st.	Public.	40	300	....
Carver	Porter st.	Northwesterly . .	Private.	40	....	156
Cedar ave. . . .	Cedar st.	Linden ave. . . .	Private.	22	...	290
Cedar ct.	Cedar st.	Southeasterly . .	Private.	15+	....	70+
Cedar St. pl. . .	Murdock st. . .	Southwesterly . .	Private.	20	....	220
Cedar St. pl. . .	Cedar n'r Elm st.	Southeasterly . .	Private.	12+	....	80+
Cedar	Elm st.	Broadway	Public.	40	4,150	....
Central	Somerville ave. .	Summer st. . . .	Public.	33	1,150	....
Central	Summer st. . . .	Medford st. . . .	Public.	40	2,480	....
Central	Medford st. . . .	Broadway	Public.	45	1,070	....
Centre	Albion st. . . .	B. & L. R. R. . .	Private.	35	....	200
Chandler	Park ave.	Broadway	Public.	40	1,232	....
Chapel	College ave. . . .	Chandler st. . . .	Public.	40	273	....
Chapel ct. . . .	Sycamore st. . . .	Northwesterly . .	Private.	12	....	130
Charles	Washington st. .	Southerly	Public.	30	166	....
Charlestown . .	Allen st.	Easterly	Private.	15	....	400
Charnwood road	Willow ave. . . .	Hancock st. . . .	Public.	40	589	....
Chauncey ave. .	(Fellsway) . . .	Mystic ave. . . .	Public.	50	1,320	....
*Chelsea	Mystic ave. . . .	Melrose st. . . .	Private.	50	....	1,390
Cherry	Elm st.	Highland ave. . .	Public.	45	1,450	....
Chester	Elm st.	Cambridge line .	Public.	40	850	....
Chester ave. . .	Medford st. . . .	Angle	Public.	about 22	220	....
Chester ave. . .	Angle	Cross st.	Private.	20	....	445
Chester pl. . . .	Chester st. . . .	Northwesterly . .	Private.	40	....	200
Chestnut	Poplar st. . . .	Southeasterly . .	Private.	40	....	540
Church	Summer st. . . .	Somerville ave. .	Public.	40	560	....
Church (south) .	Somerville ave. .	Lake st.	Public.	40	340	....

* Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Church St. pl. . .	Church st. (south)	Northwesterly . .	Private.	25	....	170
Claremon . . .	Holland st. . .	Mead st.	Public.	40	560	....
Clarendon ave. .	Broadway . . .	Cambridge line . .	Public.	40	1,217	....
Clark	Newton st. . .	Lincoln parkway .	Private.	35	....	545
Cleveland . . .	Central st. . .	Elm pl.	Private.	40	....	270
Clifton	Appleton st. . .	Morrison ave. . . .	Public.	40	240	....
Clifton	Morrison ave. .	Arlington Br. R.R.	Private.	40	....	220
Clyde	Cedar st. . . .	Murdock st. . . .	Private.	30	....	600
College ave. . .	Davis sq. . . .	Medford line . . .	Public.	60	4,080	....
Columbia	Webster ave. . .	Cambridge line . .	Public	40	816	....
Columbia ct. . .	Columbia st. . .	Webster ave. . . .	Private.	9	....	150
Columbus ave. .	Washington st. .	Walnut st.	Public.	40	1,352	....
Concord ave. . .	Prospect st. . .	Leon st.	Public.	40	1,500	....
Concord ave. . .	Leon st.	Beacon st.	Private.	30	....	470
Congress pl. . .	Linwood st. . .	Southwesterly . .	Private.	16	....	200
Conlon ct. . . .	Columbia st. . .	Easterly	Private.	20	....	200
Conwell ave. . .	Curtis st. . . .	North st.	Private.	40	....	1,349
Conwell	Highland ave. .	Southwesterly . .	Public.	35	363	....
Cooney	Beacon st. . . .	Line st.	Private.	30	....	220
Cottage ave. . .	Russell st. . . .	Chester st.	Public.	40	500	....
Cottage circle .	Cottage ave. . .	Southwesterly . .	Private.	25	....	87
Cottage pl. . . .	Washington st. .	Northwesterly . .	Private.	about 11	....	150
Craigie	Somerville ave. .	Summer st.	Public.	50	1,250	....
Crescent	Washington st .	Pearl st.	Private.	30 to 38	....	650
Crocker	Highland ave. .	Crown st.	Public.	40	528	....
Cross	Medford st. . .	Broadway	Public.	45	2,650	....
Cross	Broadway	Mystic ave.	Public.	40	1,100	....
Cross St. pl. . .	Cross st.	Northwesterly . .	Private.	24	....	150
Crown	Porter st. . . .	Lowell st.	Private.	30	....	700
Curtis ave. . . .	Curtis st. . . .	Northwesterly . .	Private.	40	....	700
Curtis	Broadway	Medford line . . .	Public.	40	2,300	....
Cutler	Lawrence st. . .	Northwesterly . .	Private.	20	....	170
Cutter ave. . . .	Summer st. . . .	Highland ave. . .	Public.	40	430	....
Cutter pk. . . .	Cutter ave. . . .	Northwesterly . .	Private.	12	....	83
Cutter	Broadway	Webster st.	Public.	40	740	....
Cypress	Central st. . . .	Beech st.	Public.	40	262	....
Dana	Bonair st. . . .	Pearl st.	Public.	40	690	....
Dane	Somerville ave. .	Washington st. . .	Public.	40	1,270	....
Dane ave. . . .	Dane st.	Leland st.	Public.	30	569	....
Dartmouth . . .	Medford st. . .	Broadway	Public.	40	1,450	....
Day	Elm st.	Cambridge line . .	Public.	40	940	....
Delaware	Aldrich st. . . .	Pearl st.	Public.	40	451	....
Dell	Glen st.	Tufts st.	Public.	40	466	....
Derby	Temple st. . . .	Grant st.	Public.	40	831	....
Derby	Grant st.	Wheatland st. . .	Private.	40	....	200
Dexter	Broadway	Medford line . . .	Private.	50	....	25
Dickinson	Springfield st. .	Beacon st.	Public.	40	770	....
Dickson	Broadway	Fairmount ave. . .	Private.	40	....	271
Dimick	Concord ave. . .	Calvin st.	Public.	40	957	....
Distillhouse . .	South st.	Cambridge line . .	Private.	35	....	150
Dix pl.	Linwood st. . . .	Southwesterly . .	Private.	10	....	100
Dover	Elm st.	Cambridge line . .	Public.	40	940	....
Downer pl. . . .	Downer st. . . .	B. & L. R. R. . .	Private.	20	....	125
Downer	Nashua st. . . .	Southeasterly . .	Private.	20	....	120
Dresden circle .	Cutter ave. . . .	Westerly	Private.	30	....	133
Durham	Beacon st. . . .	Hanson st.	Public.	40	423	....
Dynamo	Willow ave. . . .	Whipple st.	Private.	30	....	255
Earle	South st.	Fitchburg R. R. . .	Private.	30	....	322
East Albion . . .	Mt. Vernon ave. .	E. of Moreland st.	Private.	25	....	188
East Albion . . .	E. of Moreland st	Medford line . . .	Private.	40	....	490
Eastman ter. . .	Highland ave. . .	Southwesterly . .	Public.	40	296	....
*Edgeworth . . .	Mystic ave. . . .	Melrose st.	Private.	50	....	1,380
Edmands	Broadway	to near Bonair st.	Public.	40	376	....
Edmonton ave. .	Cross st.	Winthrop ave. . .	Private.	40	....	630
Electric ave. . .	Curtis st.	Packard ave. . . .	Public.	40	681	....

* Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Eliot	Vine st.	Park st.	Public.	40	260	....
Ellington road	Highland ave.	Northeasterly	Private.	35	....	120
Ellington road	West st.	Northwesterly	Private.	30	....	405
Ellsworth	Cross st.	Rush st.	Public.	40	210	....
Elm ct.	Villa ave.	Northwesterly	Private.	18	....	70
Elm pl.	Harvard st.	Easterly & west'ly	Private.	30	....	400
Elm	Somerville ave.	Cherry st.	Public.	63	1,590	....
Elm	Cherry st.	White st.	Public.	63 to 60	330	....
Elm	White st.	Banks st.	Public.	60	660	....
Elm	Banks st.	Beech st.	Public.	60 to 77.5	290	....
Elm	Beech st.	Tenney st.	Public.	77.5 to 60	570	....
Elm	Tenney st.	Davis sq.	Public.	60	1,420	....
Elmwood	Holland st.	Cambridge line	Public.	40	1,057	....
Elmwood ter.	Elmwood st.	Easterly	Private.	20	....	190
Elston	Elm st.	Summer st.	Public.	40	396	....
Emerson	Everett st.	Newton st.	Private.	30	....	170
Emery	Fitchburg R. R.	South st.	Private.	30	....	335
Endicott ave.	Broadway	Woodstock st.(Ext'n)	Private.	40	....	800
Essex	Medford st.	Richdale ave.	Public.	40	232	....
Eustis	Beacon st.	Southwest	Private.	30	....	150
Everett ave.	Cross st.	Dana st.	Public.	40	800	....
Everett	Webster ave.	Newton st.	Private.	30	....	350
Evergreen ave.	Marshall st.	Sycamore st.	Public.	40	1,320	....
Evergreen sq.	Porter st.	Southeasterly	Private.	8	....	200
Fairlee	Cherry st.	Northwesterly	Public.	30	144	....
Fairmount ave.	Curtis st.	Northwesterly	Private.	40	....	700
Fairview ter.	Sycamore st.	Southwesterly	Private.	15	....	173
Farragut ave.	Broadway	Woodstock st.(Ext'n)	Private.	40	....	840
Fellsway	Mystic ave.	Medford line	Public.	70 to 130	2,500	....
Fenwick	Broadway	Jaques st.	Public.	40	601	....
Fisk ave.	Hinckley st.	Lowell st.	Private.	20 & 25	....	460
Fitchburg ct.	Fitchburg st.	Southeasterly	Private.	10	....	225
Fitchburg	Linwood st.	B. & L. R. R.	Private.	40	....	400
Flint ave.	Flint st.	Northerly	Private.	40	....	200
Flint	Franklin st.	Aldrich st.	Public.	40	1,773	....
Florence	Washington st.	Perkins st.	Public.	40	1,280	....
Florence ter.	Jaques st.	Southwesterly	Private.	20	....	90
Forest	Beacon st.	Cambridge line	Public.	40	150	....
Forster	Sycamore st.	Central st.	Private.	30	....	430
Fosket	Willow ave.	Liberty ave.	Public.	40	668	....
Fountain ave.	Cross st.	Glen st.	Public.	30	578	....
Francesca ave.	College ave	Liberty ave.	Public.	40	762	....
Francis	Porter st.	Conwell st.	Private.	30	....	180
Franklin ave.	Washington st.	Franklin st.	Private.	20	....	500
Franklin pl.	Franklin st.	Southeasterly	Private.	15	....	100
Franklin	Broadway	Washington st.	Public.	40+	2,230	....
Frederick ave.	Willow ave.	Boston ave.	Private.	40	....	1,217
Fremont ave.	Bowdoin st.	Lincoln pk.	Private.	30	....	235
Fremont	Main st.	Meacham st.	Public.	40	612	....
Fremont	Meacham st.	Near Mystic ave.	Private.	40	....	785
Frost ave.	Somerville ave.	Dane st.	Private.	35	....	550
Garden ct.	Somerville ave.	Fitchburg R. R.	Private.	25	....	370
Garfield ave.	Broadway	Middlesex ave.	Private.	40	....	1,430
Garrison ave.	Broadway	Woodstock st.(Ext'n)	Private.	40	....	850
George	Broadway	Lincoln ave.	Public.	30	275	....
Gibbens	Central st.	Benton road	Public.	40	492	....
Gibbens	Benton rd.	Northwesterly	Private.	40	....	133
Giles pl.	Walnut st.	Northwesterly	Private.	32.71	....	168
Gill's ct.	Franklin st.	Westerly	Private.	10	....	100
Gilman	Cross st.	Walnut st.	Public.	40	1,430	....
Gilman ter.	Pearl st.	Northeasterly	Public.	40	360	....
Gilson ter.	Linden ave.	Northwesterly	Private.	20	....	124
Glen	Broadway	Tufts st.	Public.	40	2,300	....
Glendale ave.	Cameron ave.	Yorktown st.	Private.	40	....	410

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Glenwood rd.	Vernon st. . .	Broadway . . .	Public.	40	1,507	....
Glover circle . .	Meacham road .	Southeasterly .	Private.	20	....	110
Gorham	Holland st. . .	Howard st. . .	Public.	40	763	....
Gould ave. . . .	Porter st. . . .	Southeasterly .	Private.	16	....	156
Gove ct.	Cedar st. . . .	Southeasterly .	Private.	15	....	145
Grand View ave.	Walnut st. . .	Vinal ave. . .	Public.	40	470	....
Granite	Somerville ave.	Osgood st. . .	Private.	40	....	400
Grant	Broadway . . .	Jaques st. . .	Public.	40	536	....
Grant	Jaques st. . .	Mystic ave. . .	Private.	40	....	814
Greene	Summer st. . .	Laurel st. . .	Public.	40	555	....
Greenville . . .	Medford st. . .	Munroe st. . .	Public.	40	660	....
Greenwood ter.	Beacon st. . .	Northeasterly .	Private	25	....	165
Grove	Elm st. . . .	Morrison ave. .	Public.	40	985	....
Hadley ct. . . .	Franklin st. . .	Westerly . . .	Private.	20	....	150
Hall ave. . . .	College ave. . .	Liberty ave. . .	Public.	40	926	....
Hall	Cedar st. . . .	Cherry st. . .	Public.	30	456	....
Hamlet	Highland ave. .	Southwesterly .	Private.	30	....	400
Hammond	Dickinson st. .	Concord ave. .	Public.	40	267	....
Hancock	Elm st. . . .	Highland ave. .	Public.	40	1,302	....
Hancock	Highland ave. .	Lexington ave. .	Public.	50	376	....
Hanson ave. . . .	Hanson st. . .	Easterly . . .	Private.	30	....	252
Hanson	Washington st. .	Vine st. . . .	Private.	35	....	750
Harcourt	Dimick st. . .	Harold st. . .	Private.	40	....	285
Harding	South st. . . .	Cambridge line	Private.	30	....	115
Harold	Dimick st. . .	Northerly . . .	Private.	40	....	429
Harris	Beacon st. . .	Cambridge line	Private.	35	....	150
Harrison	Ivaloo st. . . .	Kent st. . . .	Public.	40	644	....
Harrison	Elmwood st. . .	Southeasterly .	Private.	40	....	210
Harvard pl. . . .	Harvard st. . .	Westerly . . .	Private.	35	....	200
Harvard	Summer st. . .	Beech st. . . .	Public.	40	656	....
Hathorn	Broadway . . .	Arlington st. .	Public.	40	330	....
Hawkins	Somerville ave. .	Washington st	Public.	40	330	....
Hawthorne . . .	Willow ave . .	Cutter ave. . .	Private.	50	....	810
Hayden ter. . .	Linden ave. . .	Easterly . . .	Private	20	....	120
Heath	Temple st. . .	Bond st. . . .	Public.	45	1,043	....
Heath	Bond st. . . .	Moreland st. .	Private.	40	....	750
Henderson . . .	Richardson st. .	B. & L. R. R. .	Private.	20	....	535
Hennessy ct. . .	Medford st. . .	Fisk ave. . . .	Private.	20	....	250
Henry ave. . . .	Highland ave. .	Lexington ave. .	Public.	40	290	....
Herbert	Chester st. . .	Day st. . . .	Public.	40	360	....
Hersey	Berkeley st. . .	Oxford st. . .	Private.	40	....	230
Highland ave. .	Medford st. . .	Davis sq. . . .	Public.	60	9,100	....
Highland rd. . .	Morrison ave. .	Boston ave. . .	Private.	70	....	1,500
Hill	Broadway . . .	Fairmount ave. .	Private.	40	....	236
Hillside ave. . .	Pearl st. . . .	Southwesterly .	Private.	30	....	150
Hillside pk. . .	Walnut st. . .	Northwesterly .	Public.	40	196	....
Hinckley	Broadway . . .	Lawrence st. .	Private.	30	....	430
Hodgdon pl. . .	Dane ave. . . .	Northeasterly .	Private.	about 20	....	150
Holland	Davis sq. . . .	Broadway . . .	Public.	60	2,650	....
Holt's ave. . . .	Oak st. . . .	Southeasterly .	Private.	10	....	100
Holyoke road . .	Elm st. . . .	Elm st. . . .	Private.	40	....	640
Homer sq. . . .	Bonner ave. . .	Northwesterly .	Public.	30+	200	....
Horace	South st. . . .	Fitchburg R. R. .	Private.	30	....	510
Houghton	Springfield st. .	Cambridge line.	Public.	40	653	....
Howard	Thorndike st. .	Gorham street .	Private.	40	....	430
Howe	Marshall st. . .	School st. . .	Public.	40	445	....
Hudson	Central st. . .	Cedar st. . . .	Public.	40	2,760	....
Hunting	South st. . . .	Cambridge line	Private.	30	....	125
Ibbetson	Somerville ave.	Lowell st. . .	Public.	40	802	....
Irving	Broadway . . .	Holland st. . .	Public.	40	1,180	....
Ivaloo	Beacon st. . .	Park st. . . .	Public.	40	650	....
James	Pearl st. . . .	Veazie st. . . .	Public.	40	320	....
Jaques	Chauncey ave. .	Temple st. . .	Public.	40	1,200	....
Jaques	Temple st. . .	Bond st. . . .	Public.	45	1,050	....

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Jasper pl. . . .	Jasper st. . . .	Walnut st. . . .	Private.	20	....	225
Jasper	Pearl st. . . .	Gilman st. . . .	Private.	40	....	300
Jay	Holland st. . . .	Howard st. . . .	Public.	40	534	....
Jerome ct. . . .	Sycamore st. . . .	Jerome st. . . .	Private.	10	...	150
Jerome	Montrose st. . . .	Jerome ct. . . .	Private.	20	....	125
Joseph	Newton st. . . .	Lincoln parkway .	Public.	40	458	....
Josephine ave. .	Morrison ave. . .	Broadway	Private.	45	....	1,715
Joy	Washington st. . .	Poplar st. . . .	Public.	30	1,121	....
Joy St. pl. . . .	Joy st. . . .	Southwesterly . .	Private.	30	....	175
Kenneson road . .	Broadway	Southwesterly . .	Private.	30	....	270
Kensington ave. .	Broadway	Blakeley ave. . .	Public.	40	455	....
*Kensington ave. .	Blakeley ave. . .	Middlesex ave. . .	Private.	40	....	1,150
Kent ct. . . .	Kent st. . . .	Northerly	Private.	about 25	....	420
Kent	Somerville ave. . .	Fitchburg R. R. . .	Public.	40	292	....
Kent	Fitchburg R. R. . .	Beacon st. . . .	Public.	25	386	....
Kenwood	College ave. . . .	Billingham st. . .	Public.	40	322	....
Kidder ave. . . .	College ave. . . .	Liberty ave. . . .	Public.	40	625	....
Kidder ave. . . .	Liberty ave. . . .	Willow ave. . . .	Private.	40	....	655
Kilby	Somerville ave. . .	Southwesterly . .	Private.	20	....	180
Kimball	Lowell st. . . .	Craigie st. . . .	Private.	40	....	303
Kingman ct. . . .	Washington st. . .	Fitchburg R. R. . .	Private.	25	....	400
Kingston	Meacham road . . .	Cambridge line . .	Public.	40	647	....
Knapp	School st. . . .	Granite st. . . .	Public.	40	379	....
Knowlton	Tufts st. . . .	N'Ely line Est. 37	Public.	40	461	....
Knowlton	End of above . . .	Oliver st. . . .	Private.	40	....	464
Lake	Hawkins st. . . .	Church st. . . .	Public.	40	860	....
Lamson ct. . . .	Linwood st. . . .	Poplar st. . . .	Private.	20	....	370
Landers	School st. . . .	Westerly	Private.	40	....	280
Laurel ave. . . .	Laurel st. . . .	Northwesterly . .	Private.	18	...	125
Laurel	Somerville ave. . .	Summer st. . . .	Public.	40	940	....
Lawrence	Hinckley st. . . .	B. & L. R. R. . .	Private.	35	...	650
Lawrence	Boston ave. . . .	Southwesterly . .	Private.	35	....	710
Lawson ter. . . .	Putnam st. . . .	Easterly	Private.	5	....	200
Lee	Medford st. . . .	Richdale ave. . .	Public.	40	385	....
Leland	Washington st. . .	Dane ave. . . .	Private.	40	....	365
Leon	Concord ave. . . .	Dickinson st. . .	Public.	40	155	....
Leonard pl. . . .	Joy st. . . .	Northeasterly . .	Private.	13+	....	98
Lesley ave. . . .	Highland ave. . .	Lexington ave. . .	Public.	40	333	....
Leslie pl. . . .	Highland ave. . .	Northerly	Private.	12	....	75
Lester ter. . . .	Meacham road . . .	Northwesterly . .	Private.	20	....	190
Lexington ave. . .	Willow ave. . . .	Hancock st. . . .	Private.	50	....	630
Lexington ave. . .	Hancock st. . . .	Cedar st. . . .	Private.	45 and 40	....	721
Liberty ave. . . .	Hall ave. . . .	Broadway	Public.	40	1,395	....
Liberty ave. . . .	Hall ave. . . .	Appleton st. . . .	Private.	40	....	100
Lincoln ave. . . .	Lincoln st. . . .	Mt. Vernon st. . .	Public.	30	478	....
Lincoln parkway .	Washington st. . .	Perry st. . . .	Public.	40	1,520	....
Lincoln pl. . . .	Lincoln ave. . . .	Northerly	Private.	9	....	120
Lincoln	Broadway	Perkins st. . . .	Public.	40	550	....
Linden ave. . . .	Elm st. . . .	Summer st. . . .	Public.	45	1,050	....
Linden ave. . . .	Summer st. . . .	Northeasterly . .	Private.	45	....	250
Linden circle . . .	Linden ave. . . .	Southeasterly . .	Private.	24	....	120
Linden pl. . . .	Linden ave. . . .	Northwesterly . .	Private.	20	....	160
Linden	Somerville ave. . .	Fitchburg R. R. . .	Private.	30	....	705
Line	Washington st. . .	Cambridge line . .	Public.	30	1,727	....
Linehan ct. . . .	Linwood st. . . .	Chestnut st. . . .	Private.	about 15	....	200
Linwood pl. . . .	Linwood st. . . .	Southwesterly . .	Private.	about 12	....	150
Linwood	Somerville ave. . .	Washington st. . .	Public.	50	2,050	....
London	Linwood st. . . .	B. & L. R. R. . .	Private.	40	....	340
Loring	Somerville ave. . .	Northeasterly . .	Private.	40	....	400
Louisburg pl. . . .	Autumn st. . . .	Easterly	Private.	13	....	90
Lovell	Broadway	Electric ave. . . .	Private.	40	....	385
Lowden ave. . . .	Broadway	Fosket st. . . .	Private.	40	....	1,205
Lowell	Somerville ave. . .	Summer st. . . .	Public.	36	1,259	....
Lowell	Summer st. . . .	Crown st. . . .	Private.	33+	....	349

* Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Lowell	Crown st. . . .	Albion st. . . .	Public.	40	972	....
Lowell	Albion st. . . .	L. & A.Br'ch R R.	Private.	40	....	540
Lowell	B. & L. R. R. .	Vernon st. . . .	Private.	33+	....	60
Lowell	Vernon st. . . .	Medford st. . . .	Public.	40	1,141	....
Lowell ter. . .	Lowell st. . . .	Northwesterly . .	Private.	20	....	150
Madison	School st. . . .	Sycamore st. . . .	Public.	40	891	....
Main	Broadway	Medford line . . .	Public.	50	950	....
*Malden	Mystic ave. . . .	Melrose st. . . .	Private.	50	....	1,360
Mallet	Willow ave. . . .	Liberty ave. . . .	Private.	40	....	580
Malloy ct. . . .	Somerville ave. .	Merriam st. . . .	Private.	30	....	255
Malvern ave. . .	Cameron ave. . .	Yorktown st. . . .	Private.	40	....	410
Manila road . .	Beacon st. . . .	Sacramento st. . .	Private.	40	....	408
Mansfield	Somerville ave. .	Washington st. . .	Public.	40	735	....
Maple ave. . . .	School st. . . .	Southeasterly . . .	Private.	40	....	300
Maple pl.	Marshall st. . . .	Maple ave.	Private.	5	....	125
Maple	Poplar st.	Medford st.	Public.	30	699	....
Marion	Concord ave. . . .	Wyatt st. N'w'ly .	Public.	40	705	....
Marshall	Broadway	Pearl st.	Public.	40	1,650	....
May pl.	Hawkins st. . . .	Easterly	Private.	12	....	100
McCulphe pl. . .	Medford st. . . .	Easterly	Private.	10	....	110
McGregor ave. .	Wigglesworth st. .	Walnut st.	Private.	about 10	....	250
Meacham road . .	Dover st.	Cambridge line . .	Public.	40	1,060	....
Meacham	Mt. Vernon ave. .	Medford line . . .	Private.	40	....	800
Mead	Cameron ave. . . .	Moore st.	Private.	40	....	340
Medford	Cambridge line . .	Central st.	Public.	50	8,150	....
Medford	Central st.	Broadway	Public.	55	1,950	....
Melburn pl. . . .	Summer st.	Northeasterly . . .	Private.	30	....	125
Melledew ct. . .	Belmont st. . . .	Easterly	Private.	15	....	137
Melrose	Mystic ave.	Middlesex ave. . . .	Private.	50	....	2,310
Melvin	Broadway	Bonair st.	Public.	40	487	....
Merriam ave. . .	Merriam st. . . .	Malloy ct.	Private.	15	....	255
Merriam	Somerville ave. .	Charlestown st. . .	Private.	30	....	500
Middlesex ave. .	Mystic ave.	Fellsway	Public.	60	2,250	....
Milk pl.	Somerville ave. .	Southwesterly . . .	Private.	about 30	....	100
Miller	Sacramento st. .	Beacon st.	Private.	33	....	465
Milton	Orchard st. . . .	Cambridge line . .	Private.	35	....	220
Miner	Vernon st.	Ames st.	Public.	40	244	....
Mondamin ct. . .	Ivaloo st.	Harrison st.	Private.	25	....	250
Monmouth	Central st.	Westerly	Public.	40	267	....
Monmouth	End of above . . .	Harvard st.	Private.	35	....	200
Montgomery ave. .	Broadway	Wellington ave. . .	Public.	40	265	....
Montrose ct. . . .	Montrose st. . . .	B. & L. R. R. . . .	Private.	12	....	110
Montrose	School st.	Sycamore st.	Public.	40	886	....
Moore	Holland st.	Mead st.	Public.	40	695	....
Moreland	Main st.	Mystic ave.	Private.	40	....	1,513
Morgan	Beacon st.	Park st.	Public.	40	350	....
Morrison ave. . .	Cedar st.	Willow ave.	Public.	50	1,366	....
Morrison ave. . .	Willow ave.	College ave.	Public.	40	1,700	....
Morrison pl. . . .	Morrison ave. . .	Northerly	Private.	20	....	190
Morrison pl. . . .	Morrison pl. . . .	Easterly	Private.	15	....	175
Mortimer pl. . . .	Marshall st. . . .	Walter st.	Private.	20	....	280
Morton	Glen st.	Knowlton st.	Public.	40	287	....
Mossland	Somerville ave. . .	Elm st.	Public.	40	350	....
Mountain ave. . .	Linden ave. . . .	Porter st.	Private.	22	....	310
Mousal pl.	North Union st. .	B. & M. R. R. . . .	Private.	20	....	200
Mt. Pleasant ct. .	Perkins st.	Southwesterly . . .	Private.	40	....	260
Mt. Pleasant . . .	Broadway	Perkins st.	Public.	33	570	....
Mt. Vernon ave. .	Main st.	Meacham st.	Private.	50	....	800
Mt. Vernon	Washington st. . .	Pearl st.	Public.	40	600	....
Mt. Vernon	Pearl st.	Perkins st.	Public.	50	450	....
Mt. Vernon	Perkins st.	Broadway	Public.	40	600	....
Munroe	Walnut st.	Easterly	Public.	40	375	....
Munroe	End of above . . .	Boston st.	Public.	50	1,214	....
Murdock	Cedar st.	Clyde st.	Private.	30	....	900
Murray	Washington st. . .	Southerly	Private.	30	....	250
Museum	Beacon st.	Cambridge line . .	Public.	40	164	....
Myrtle ct.	Myrtle st.	Easterly	Private.	10	....	100

* Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Myrtle pl. . . .	Myrtle st. . . .	Westerly	Private.	20+	....	120
Myrtle	Washington st. .	Perkins st. . . .	Public.	40	1,400	....
Mystic ave. . . .	Charlestown line	Union st. . . .	Public.	60	350	....
Mystic ave. . . .	Union st. . . .	Medford line . .	Public.	66	6,900	....
Mystic	Washington st. .	Somerville ave. .	Public.	40	360	....
Mystic	Benedict st. . . .	Mystic ave. . . .	Private.	40	....	330
Nashua	Richardson st. .	B. & L. R. R. . .	Private.	35	....	640
Nevada ave. . . .	Village st. . . .	Hanson st. . . .	Private.	20	....	200
Newberne	Appleton st. . .	Morrison ave. . .	Public.	40	200	....
Newberne	Morrison ave. . .	B. & L. R. R. . .	Private.	40	....	173
Newbury	Holland st. . . .	Cambridge line .	Public.	40	1,250	....
Newman pl. . . .	Cedar st. . . .	Southeasterly . .	Private.	15	....	100
Newton pl. . . .	Newton st. . . .	Easterly	Private.	about 10	....	100
Newton	Prospect st. . . .	Webster ave. . . .	Public.	25	470	....
Newton	Webster ave. . . .	Concord ave. . . .	Public.	40+	650	....
Norfolk	Webster ave. . . .	Cambridge line .	Public.	40	200	....
North	Broadway	Medford line . .	Public.	40	2,550	....
North Union . .	Mystic ave. . . .	Northeasterly . .	Private.	30	....	600
Norton	Nashua st. . . .	Southeasterly . .	Private.	20	....	200
Norwood ave. . .	Broadway	Medford st. . . .	Public.	40	350	....
Oak	Prospect st. . . .	Angle	Public.	40	670	....
Oak	Angle	Cambridge line .	Public.	30	563	....
Oak St. pl. . . .	Oak st. . . .	Northerly	Private.	4	....	85
Oakland ave. . .	Marshall st. . .	School st. . . .	Public.	40	440	....
Olive ave. . . .	Linden ave. . . .	Southeasterly . .	Private.	25	....	155
Olive sq. . . .	Lake st. . . .	Southerly	Private.	about 15	....	100
Oliver	Franklin st. . . .	Cross st. . . .	Public.	40	1,050	....
Orchard	Cambridge line .	Meacham road . .	Public.	40	1,625	....
Osgood	Granite st. . . .	Easterly & west'y	Private.	40	....	450
Ossipee road . .	Packard ave. . . .	Curtis st. . . .	Private.	40	....	682
Otis	Cross st. . . .	Wigglesworth st. .	Public.	40	1,200	....
Oxford	School st. . . .	Central st. . . .	Public.	35	1,361	....
Oxford	Beacon st. . . .	Cambridge line .	Public.	50	100	....
Packard ave. . .	Broadway	Professors row . .	Public.	60	1,758	....
Packard ave. . .	Professors row . .	Medford line . .	Private.	60	....	242
Palmer ave. . . .	Franklin st. . . .	Northwesterly . .	Private.	20	....	200
Park ave. . . .	College ave. . . .	Wallace st. . . .	Public.	40	450	....
Park pl. . . .	Laurel st. . . .	Easterly	Private.	30	....	220
Park pl. . . .	Park pl. . . .	Northeasterly . .	Private.	20	....	150
Park	Somerville ave. .	Beacon st. . . .	Public.	50	1,300	....
Parker pl. . . .	Porter st. . . .	Northwesterly . .	Private.	20	....	150
Parker	Washington st. .	Fremont ave. . . .	Private.	35	....	200
Partridge ave. .	Vernon st. . . .	Broadway	Public.	40	1,457	....
Patten ct. . . .	Cutter st. . . .	Southeasterly . .	Private.	8	....	100
Paulina	Broadway	Holland st. . . .	Private.	40	....	775
Pearl	Crescent st. . . .	Mt. Vernon st. .	Public.	37	341	....
Pearl	Mt. Vernon st. .	Franklin st. . . .	Public.	50	950	....
Pearl	Franklin st. . . .	Cross st. . . .	Public.	40	1,025	....
Pearl	Cross st. . . .	Medford st. . . .	Public.	50	2,475	....
Pearl St. pl. . .	Pearl st. . . .	Northeasterly . .	Private.	20	....	260
Pearl ter. . . .	Pearl st. . . .	Northerly	Private.	23	....	161
Pearson ave. . .	Morrison ave. . .	Boston ave. . . .	Private.	45	....	1,300
Pearson road . .	Broadway	Professors row . .	Private.	40	....	1,654
Pembroke ct. . .	Pembroke st. . . .	Southwesterly . .	Private.	25	....	130
Pembroke	Central st. . . .	Sycamore st. . . .	Public.	40	430	....
Perkins pl. . . .	Perkins st. . . .	Northeasterly . .	Private.	20	....	260
Perkins	Franklin st. . . .	Charlestown line .	Public.	40	1,350	....
Perry	Washington st. .	Lincoln parkway .	Public.	40	606	....
Peterson ter. . .	Porter st. . . .	Northwesterly . .	Private.	13+	....	155
Pinckney pl. . .	Pinckney st. . . .	Southeasterly . .	Private.	24	....	125
Pinckney	Washington st. .	Perkins st. . . .	Public.	40	1,170	....
Pitman	Beech st. . . .	Spring st. . . .	Private.	30	....	380
Pitman	Spring st. . . .	Belmont st. . . .	Private.	26	....	390
Pleasant ave. . .	Walnut st. . . .	Vinal ave. . . .	Public.	40	470	....

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Poplar ct.	Poplar st.	Southeasterly . . .	Private.	10	....	80
Poplar	Somerville ave.	Linwood st.	Public.	30	351	....
Poplar	Linwood st.	Joy st.	Public.	35	315	....
Poplar	Joy st.	B. & L. R. R. . . .	Private.	35	....	65
Porter ave.	Porter st.	Northwesterly . . .	Private.	20	....	220
Porter pl.	Porter st.	Northwesterly . . .	Private.	20	....	195
Porter	Elm st.	Mountain ave. . . .	Public.	45	1,560	....
Porter	Mountain ave. . . .	Highland ave. . . .	Public.	40	425	....
Powder house boulevard	Powder house square	Northwesterly, Mystic river and Medford line . . .	Public.	80	7,200	....
Powder house ter.	Kidder ave.	Liberty ave.	Public.	40	585	....
Prescott	Summer st.	Highland ave. . . .	Public.	50	1,050	....
Preston road	School st.	Summer st.	Public.	40	800	....
Princeton	Alpine st.	Lowell st.	Public.	40	657	....
Princeton	Lowell st.	Centre st.	Private.	40	....	540
Pritchard ave. . . .	Morrison ave. . . .	Boston ave.	Private.	40	....	1,145
Professors row	Boston ave.	College ave.	Private.	50	....	460
Professors row	College ave.	Curtis st.	Public.	40	2,000	....
Prospect	Washington st. . . .	Cambridge line . . .	Public.	50	2,050	....
Prospect Hill av.	Medford st.	Munroe st.	Public.	40	450	....
Prospect Hill p'k'y	Munroe st.	Stone ave.	Public.	40	400	....
Prospect pl.	Prospect st.	E. Newton st. . . .	Private.	20	....	130
Putnam	Summer st.	Highland ave. . . .	Public.	50	1,240	....
Quincy	Somerville ave.	Summer st.	Public.	40	700	....
Randolph pl.	Cross st.	Westerly	Private.	15	....	244
Raymond ave.	Curtis st.	North st.	Public.	40	1,345	....
Record's pl.	Broadway	Southwesterly . . .	Private.	10	....	110
Reed's ct.	Oliver st.	Southwesterly . . .	Private.	20	....	105
Remick ct.'	Cutter st.	Southeasterly . . .	Private.	10	....	100
Richardson	Lowell st.	Lawrence st.	Private.	35	....	480
Richardson ter. . . .	Richardson st. . . .	Northeasterly . . .	Private.	20	....	135
Richdale ave.	School st.	Sycamore st.	Public.	40	875	....
Richmond hi'h'ds	Madison st.	Southerly	Private.	30	....	150
Roberts	Lawrence st.	Northwesterly . . .	Private.	20	....	170
Robinson	Central st.	Bartlett st.	Public.	40	582	....
Rogers ave.	Morrison ave. . . .	Boston ave.	Public.	45	1,682	....
Roland st.	Waverly st.	Boston line	Private.	40	....	100
Roseland	Beacon st.	Cambridge line . . .	Public.	40	100	....
Rossmore	Somerville ave.	Washington st. . . .	Public.	40	534	....
Royce pl.	Bonair st.	Northeasterly . . .	Private.	15+	....	175
Rush	Broadway	Flint st.	Public.	40	1,400	....
Russell road	Broadway	North st.	Private.	40	....	1,193
Russell	Elm st.	Cambridge line . . .	Public.	40	700	....
Sacramento	Somerville ave.	Fitchburg R. R. . .	Public.	40	80	....
Sacramento	Fitchburg R. R.	Beacon st.	Public.	40	290	....
Sacramento	Beacon st.	Cambridge line . . .	Private.	40	....	156
Sanborn ave.	Warren ave.	Walnut st.	Public.	40	280	....
Sanborn ct.	Washington st. . . .	Northwesterly . . .	Private.	30	....	176
Sargent ave.	Broadway	Walnut st.	Public.	40	1,082	....
Sartwell ave.	Cedar st.	Cherry st.	Private.	35	....	400
Sawyer ave.	Packard ave.	Curtis st.	Private.	40	....	690
School	Somerville ave.	Highland ave. . . .	Public.	40	1,870	....
School	Highland ave. . . .	Broadway	Public.	50	2,500	....
Sellon pl.	Marshall st.	Northwesterly . . .	Private.	12	....	120
Seven Pines ave . . .	Cameron ave.	Cambridge line . . .	Private.	40	....	80
Sewall ct.	Sewall st.	Southwesterly . . .	Private.	25	....	190
Sewall	Grant st.	Temple st.	Public.	40	615	....
Shawmut pl.	Shawmut st.	Alston st.	Private.	30	....	200
Shawmut	Washington st. . . .	Cross st.	Public.	40	550	....
Shedd	Somerville ave.	Merriam ave.	Private.	40	....	310
Sherman ct.	Sargent ave.	Marshall st.	Private.	10	....	250
Sherman	Somerville ave.	Frost ave.	Private.	35	....	270
Sibley ct.	Cutter st.	Northwesterly . . .	Private.	10	....	100
Sibley pl.	Cutter st.	Northwesterly . . .	Private.	10	....	100

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Simpson ave. . .	Broadway . . .	Holland st. . . .	Private.	40	....	825
Skehan	Dane st.	Durham st.	Private.	30	....	720
Skilton ave. . .	Pearl st.	Pearl st.	Private.	40	....	540
Smith ave. . . .	Beacon st. . . .	Line st.	Private.	25+	....	200
Snow pl.	Belmont st. . . .	Easterly	Private.	30	....	75
Snow pl.	Snow pl.	N'th'ly and S'th'ly	Private.	20	....	222
Snow ter.	Jaques st.	Southwesterly . .	Private.	16	....	120
Somerville ave. .	E. Camb. line . .	Union sq.	Public.	75	4,300	....
Somerville ave. .	Union sq.	N. Camb. line . .	Public.	70	6,800	....
South	Medford st. . . .	Water st.	Public.	30	989	....
Spencer ave. . .	Cedar st.	Hancock st. . . .	Public.	40	727	....
Spring ct.	Somerville ave.	Westerly	Private.	20	....	200
Spring	Somerville ave.	Summer st.	Public.	40	1,200	....
Springfield . . .	Concord ave. . .	Cambridge line . .	Public.	40	800	....
Spring Hill ter. .	Highland ave. . .	Belmont st. . . .	Private.	20	....	670
Stanford ter. . .	Beacon st.	Northeasterly . .	Private.	20	....	200
Stickney ave. . .	Marshall st. . . .	School st.	Public.	40	458	....
St. James ave. . .	Elm st.	Summer st.	Public.	40	488	....
Stone ave.	Union sq.	Columbus ave. . .	Public.	40	676	....
Stone ave.	Columbus ave. . .	Prospect Hill p'k'y	Public.	38	107	....
Stone pl.	Stone ave.	Southeasterly . .	Private.	30	....	145
Summer	Bow st.	Elm st.	Public.	45	7,700	....
Summit ave. . . .	Walnut st.	Vinal ave.	Public.	45	470	....
Summit	College ave. . . .	Billingham st. . .	Public.	40	262	....
Sumner	Lawrence st. . . .	Northwesterly . .	Private.	20	....	175
Sunnyside ave. . .	Walnut st.	Wigglesworth st. .	Private.	35	....	250
Sycamore	Broadway	Medford st. . . .	Public.	45	1,250	....
Sycamore	Medford st. . . .	B. & L. R. R. . . .	Public.	40	582	....
Sycamore	B. & L. R. R. . . .	Highland ave. . .	Public.	35	660	....
Sydney	Grant st.	Temple st.	Public.	40	679	....
Talbot ave. . . .	Packard ave. . . .	College ave.	Private.	50	....	1,409
* Tannery (Ext'n)	Cambridge line . .	Woodstock st.(Ext'n)	Private.	40	....	160
Taunton.	Wyatt st.	Easterly to angle .	Private.	30	....	170
Taunton	Angle	Marion st.	Private.	20	....	95
Taylor pl.	Somerville ave. .	Southerly	Private.	15	....	200
Taylor	Mystic ave.	Sydney st.	Private.	40	....	310
Teele ave.	Packard ave. . . .	Curtis st.	Private.	40	....	685
Temple	Broadway	Mystic ave.	Public.	66	1,540	....
Tenney ct.	Mystic ave.	Northeasterly . .	Private.	30	....	400
Tennyson	Forster st.	Pembroke st. . . .	Public.	40	869	....
Thorndike	Holland st.	Arl'ngt'n Br. R. R.	Public.	40	465	....
Thorndike	Arl'gt'n Br. R.R.	Kingston st. . . .	Public.	40	115	....
Thorpe pl.	Highland ave. . .	Southwesterly . .	Private.	30	....	450
Thurston	Broadway	Richdale ave. . . .	Public.	40	1,660	....
Tower ct.	Tyler st.	Northeasterly . .	Private.	25	....	150
Tower	Crown st.	Highland ave. . .	Public.	40	559	....
Tremont pl. . . .	Tremont st.	Southeasterly . .	Private.	about 10	....	75
Tremont	Webster ave. . . .	Cambridge line . .	Public.	40	589	....
Trull	Vernon st.	Medford st. . . .	Public.	40	1,050	....
Trull lane	Highland ave. . .	Oxford st.	Private.	15	....	200
Tube Works ct. . .	Somerville ave. .	Southwesterly . .	Private.	20	....	150
Tufts parkway . .	College ave. . . .	College ave. . . .	Public.	22	900	....
Tufts	Washington st. . .	Cross st.	Public.	40	940	....
Tyler	Vine st.	Dane st.	Public.	40	404	....
Unnamed st. . . .	Ware st.	Powder h'se blvd.	Private.	20-40	....	283
Unnamed st. (Highway and Water Dept. grounds)	Broadway	Cedar st.	Private.	45	....	980
Union	Broadway	Mystic ave.	Public.	40	330	....
Union pl.	Linwood st.	Southwesterly . .	Private.	10	....	100
Upland Park . . .	Main st.	Southwesterly . .	Private.	20	....	175

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Veazie	Walnut st. . . .	Bradley st. . . .	Public.	35	392	....
Veazie	Bradley st. . . .	Northwesterly . .	Private.	40	....	90
Vernon	Central st. . . .	Glenwood road . .	Public.	40	740	....
Vernon	Glenwood road . .	Lowell st.	Private.	30	....	600
Victoria	Broadway	Cambridge line . .	Private.	40	....	1,036
Villa ave.	Winslow ave. . . .	Arlington Br. R. R.	Private.	35	....	200
Village	Dane st.	Vine st.	Private.	25	....	370
Vinal ave.	Summer st. . . .	Highland ave. . . .	Public.	45	1,400	....
Vinal	Richardson st. . .	Northeasterly . . .	Private.	20	....	200
Vine ct.	Vine st.	Northwesterly . .	Private.	25	....	140
Vine	Somerville ave. . .	Hanson st.	Private.	40	....	780
Vine	Hanson st.	Beacon st.	Private.	25	....	650
Virginia	Aldrich st. . . .	Jasper st.	Public.	40	405	....
Wade ct.	Cedar st.	Westerly	Private.	20	....	180
Waldo ave.	Beacon st.	Dimick st.	Private.	40	....	277
Waldo	Highland ave. . .	Hudson st.	Public.	40	287	....
Wallace	Holland st.	Broadway	Public.	40	1,350	....
Walnut	Bow st.	Broadway	Public.	40	3,830	....
Walter pl.	Walter st.	Southwesterly . .	Private.	40	....	222
Walter	Walnut st.	{ about 100 ft. N. } { of Bradley st. }	Public.	40	548	....
Ward	Medford st. . . .	Earle st.	Private.	30	....	610
Ware	Curtis st.	Northwesterly . .	Private.	40	....	700
Warner	Powder House sq. .	Medford line . . .	Public.	60	500	....
Warren ave.	Union sq.	Columbus ave. . .	Public.	40	650	....
Warren	Medford st. . . .	Cambridge line . .	Private.	30	....	100
Warwick place . . .	Warwick st. . . .	Northeasterly . . .	Private.	15	....	150
Warwick	Cedar st.	Warwick pl. . . .	Public.	40	655	....
Washington ave. . .	Washington st. . .	Northerly	Private.	18	....	350
Washington	Charlest'n line . .	Franklin ave. . . .	Public.	75	1,060	....
Washington	Franklin ave. . . .	Fitchburg R. R. . .	Public.	60 to 100	3,870	....
Washington	Fitchburg R. R. . .	Cambridge line . .	Public.	60	2,380	....
Water	South st.	Northerly	Private.	25	....	250
Waterhouse	Broadway	Cambridge line . .	Private.	40	....	986
Watson	Broadway	Fairmount ave. . .	Private.	40	....	236
Waverly	Washington st. . .	Roland st.	Private.	35	....	200
Webster ave. . . .	Union sq.	Cambridge line . .	Public.	49.5	1,950	....
Webster	Franklin st. . . .	Cross st.	Public.	40	1,000	....
Wellington ave. . .	Walnut st.	Montgomery ave. .	Public.	40	215	....
Wellington ave. . .	Montgomery ave. .	Easterly	Private.	40	....	85
Wesley pk.	Wesley sq.	Northeasterly . . .	Public.	40	405	....
Wesley	Pearl st.	Otis st.	Public.	40	515	....
West	Broadway	Heath st.	Private.	30	....	250
West	Hawthorne st. . .	Arlington Br. R. R.	Private.	30	....	460
Westminster	Broadway	Electric ave. . . .	Public.	40	376	....
Weston ave.	Clarendon ave. . .	Broadway	Private.	40	....	525
Westwood road . . .	Central st.	Benton road	Public.	40	489	....
Wheatland	Broadway	Jaques st.	Public.	40	495	....
Wheatland	Jaques st.	Mystic ave.	Private.	40	....	855
Wheeler	Pinckney st. . . .	Mt. Vernon st. . .	Public.	40	269	....
Whipple	Highland ave. . .	Arlington Br. R. R.	Private.	30	....	318
† White	Elm st.	Cambridge line . .	Public.	30	307	....
White St. pl. . . .	White st.	Southeasterly . . .	Private.	20	....	200
Wigglesworth	Bonair st.	Pearl st.	Public.	40	740	....
William	Chandler st. . . .	College ave.	Public.	40	381	....
William	Broadway	Medford line . . .	Private.	50	....	45
Williams ct.	Porter st.	Northwesterly . . .	Private.	30	....	150
Willoughby	Central st.	Sycamore st.	Public.	40	427	....
Willow ave.	Elm st.	Broadway	Public.	50	3,440	....
Willow pl.	Cambridge line . .	South st.	Private.	25	....	150
Wilson ave.	Broadway	B. & L. R. R. . . .	Private.	20	....	310
Wilton	Lowell st.	Lawrence st. . . .	Public.	35	470	....
Winchester	Broadway	Medford line . . .	Private.	40	....	65
Windom	Elm st.	Summer st.	Public.	40	300	....

† Sidewalk in Somerville.

Table Showing the Location, Length and Width of Public and Private Streets. — Concluded.

STREET.	FROM.	TO	Public or Private	Width in Feet.	LENGTH.	
					Public.	Private.
Windsor road . .	Willow ave. . .	Hancock st. . .	Public.	40	575	....
Winslow ave. . .	College ave. . .	Clifton st. . .	Public.	40	1,086	....
Winter	College ave. . .	Holland st. . .	Public.	30	402	....
Winter Hill cir.	Broadway . . .	Northeasterly . .	Private.	25	....	177
Winthrop ave. .	Broadway . . .	Mystic ave. . . .	Public.	50	1,170	....
(Fellsway.) . .						
Winthrop ave. .	Mystic ave. . .	Middlesex ave. .	Private.	40	....	583
(Extension.) . .						
Woodbine . . .	Centre st. . . .	Lowell st. . . .	Private.	30	....	600
*Woods ave. . .	North st. . . .	Alewife brook . .	Private.	40	....	1,350
Woodstock . . .	Victoria st. . .	Alewife brook . .	Private.	40	....	415
*Woodstock (Extension.) . .	Victoria st. . .	Tannery st. (Ext'n.)	Private.	40	....	920
Wyatt circle . .	Wyatt st. . . .	Wyatt st. . . .	Private.	20	....	315
Wyatt	Concord ave. .	Lincoln parkway .	Public.	40	496	....
Yorktown . . .	{ 100 ft. north of Malvern ave. }	Cambridge line .	Private.	40	....	548

*Proposed.

Court	16 Craigie st. .	Westerly	Private.	25	....	126
Court	26 Craigie st. .	Westerly	Private.	25	....	126
Court	36 Craigie st. .	Westerly	Private.	25	....	126
Court	292 Broadway .	Southwesterly . .	Private.	15	....	96
Court	58 Dane st. . .	Easterly	Private.	10	....	70
Court	66 Lowell st. .	Westerly	Private.	25	....	101
Court	78 Lowell st. .	Westerly	Private.	25	....	101
Court	Olive ave. . . .	Porter st. . . .	Private.	7.5	....	156
Court	10 Stone ave. .	Northwesterly . .	Private.	20	....	113
Court	21 Albion st. .	Northeasterly . .	Private.	10	....	100
Court	227 Columbia st.	Northwesterly . .	Private.	10	....	117
Court	11 Albion st. .	Northeasterly . .	Private.	9	....	170
Court	20 Dimick st. .	Southwesterly . .	Private.	39.25	....	136
Court	612 Broadway .	Southwesterly . .	Private.	20	....	188
Total . . . .	. . . . .	. . . . .	. . . .	. . . .	354,236	135,698

Public, 67,090 miles (includes 2,843 miles boulevards); private, 25,700 miles.

Total length of streets in the city, 92,790 miles.



STONE CRUSHER PLANT.



CITY LEDGE, HOLLAND STREET AND BROADWAY.

REPORT OF THE STREET COMMISSIONER.

OFFICE OF THE STREET COMMISSIONER, }
January 1, 1904. }

To His Honor, the Mayor, and the Board of Aldermen:—

I herewith present to you the twenty-eighth annual report of the highway department, which covers the work performed during the year ending December 31, 1903.

The question, how to make and how to maintain good streets, is constantly being agitated by the public as one of the most important concerns of the highway department.

During the past years miles of streets have been dug up for sewers, and for laying water, gas and various other kinds of pipes.

Tunneling under paved driveways and street crossings ought never to be allowed where the tunnel is more than six inches in diameter; and when borings are made for pipes the bore should be made only large enough to allow the pipe to be put in position. From my experience it can safely be said that it is impossible to refill a horizontal tunnel so that the pavement over the trench will not settle and require repairs which make extra expense for the department.

Street Openings.

The condition in which streets are left after the work of laying water, sewer and gas pipes, replacing poles and laying underground wires, demands attention. In making water service and sewer connections, the relaying of pavements by unskilled workmen destroys the streets more than all the ordinary wear to which they are subjected.

What is the best plan to adopt in these cases?

The various departments and companies making such openings should be obliged to do all work of this description under the supervision and to the satisfaction of the street commissioner, with the exception of repaving, which ought to be done by the street department, the entire cost of the same to be paid by the department or company making the opening.

Street Cleaning.

Pressing demands for cleaner streets are constantly being brought to our attention, and the accumulation of rubbish, waste paper, tin cans and shop bills has increased to such an extent that we have been called upon to increase the force of patrol men, this system giving great satisfaction.

There are four sweeping machines, one Barnard scraper, two Mentzer cleaners, and eleven small hand carts for use in this branch of the work.

Street Watering.

Only accepted streets can be watered under the law providing for assessment of the cost of said watering upon the abutters, and when private streets are watered the cost of same must be paid in advance by the abutters.

In this department are thirty-one carts, three of which have been purchased during the year. The work is let out at a uniform price of eighty-five dollars per month for each contractor, who provides two horses and a driver, said contractor being required to keep all the streets in his district properly watered at all times.

This force is under the direction of an assistant during the street watering season, and the city is divided into districts corresponding to the number of carts, each district averaging about two miles of streets.

City Ledge.

The work of removing the stone from the Holland-street ledge between Holland street and Broadway is fast nearing its end and by the close of another year the supply will be nearly exhausted.

Stone Crusher.

The stone crusher has been kept constantly at work during the year, but has not been able to supply the demands for stone, 16,440 tons having been crushed. Besides this, the city has purchased 1,304 tons, all of which has been used on the streets.

Bridges.

Boston-avenue bridge over Mystic river and Broadway bridge over Alewife brook are in good condition. The railings of both have been painted during the year.

The new bridge over Mystic river at Middlesex avenue and the Fellsway boulevard, which is being constructed by the metropolitan park commission, is nearly completed.

Subways.

During the year a new subway has been built at Thorndike street under the railroad, and upon its completion it was put into the hands of the highway department.

The subways at Kent and Sacramento streets are in good condition, but require constant care to keep them neat and clean.

Brown-Tail and Gypsy Moths.

The city is not yet free from the brown-tail and gypsy moth pests, although much has been done toward their destruction, and at present most of them are found on private property.

After making a personal inspection, I find the trees in the highways are comparatively free from them. When they are removed from the trees by this department, the nests are all taken to the city yard and burned in a furnace; this being the only sure way to destroy them.



CLARENDON AVENUE, LOOKING TOWARD BROADWAY, FROM POINT
NEAR CAMBRIDGE LINE.



CLARENDON AVENUE, LOOKING TOWARD BROADWAY, FROM POINT
NEAR STONE QUARRY.

Shade Trees.

Much interest in shade trees has been manifested within the last five years, and the interest is increasing. The conditions with which the shade trees have to contend in the cities is a serious drawback to their growth, the principal damage being caused by the electric wires, which burn the limbs, thereby necessitating much injurious pruning.

Seventy-eight trees have been set out and forty-two cut down during the year.

Steam Road Rollers.

The city has two Buffalo Pitts rollers, one fifteen and one twelve-ton; also one five-ton asphalt roller. All of these have been in use nearly the entire year, and are in good condition.

Wide Tires.

The legislature of 1900 passed an act (chapter 334) to regulate the width of tires on draft wagons as follows:—

Section 1. On and after the first day of January in the year nineteen hundred and two, it shall be unlawful, except as provided in section four of this act, to use upon any road, street or way in this Commonwealth a draft wagon or cart having tires of iron or steel, or of any substance equally hard, which are less in width than one and one-half times the diameter of the axle, measured at the shoulder thereof; but in no case shall a tire more than four inches in width be required, and wagons or carts built with wooden or hollow axles shall have tires not less in width than the diameter of the axle, measured at the shoulder thereof.

Section 2. This act shall apply to all wagons and carts, the axles of which are two inches or more in diameter, measured as aforesaid, and to all stage coaches, tally-ho coaches, barges and other passenger vehicles not built to run on iron or steel rails, and constructed to carry eight or more persons.

Section 3. Whoever violates any provision of this act shall be punished by a fine not exceeding one hundred dollars.

Section 4. This act shall take effect on the first day of January, in the year nineteen hundred and two, but shall not apply to wagons or other vehicles owned and used in this state on that date. (Approved May 23, 1900).

Under the above act, the city has placed wide tires on all its carts.

Clarendon Avenue.

An order having been passed by the board of aldermen June 25, 1903, for the laying out of Clarendon avenue, from Broadway to the Cambridge line, work was begun on said avenue soon after its acceptance, and \$1,613.41 have already been expended. The city has until the first day of May, 1905, to complete the construction of said avenue.

Middlesex Avenue.

December 11, 1902, a hearing was given before the board of aldermen on the petition of the Boston Elevated Railway Company for track locations on Mystic avenue, from the Boston line

to Middlesex avenue, and thence through Middlesex avenue to the Fellsway boulevard. The location has not yet been granted, and before such action is taken I would recommend that the avenue be raised to grade sixteen.

Packard Avenue.

Packard avenue was laid out as a public highway from Broadway to Professors row. Considerable work has been done toward its construction during the year, the sum of \$2,376.44 having already been expended.

Miscellaneous Work.

There have been 1,403 loads of snow and ice, 6,241 loads of dirt, 8,903 loads of scrapings, and 3,301 loads of old macadam removed from the streets and 5,328 loads of ashes and 2,730 loads of ballast used in the streets.

476 permits were issued for the use of streets and sidewalks, and 406 defects in the streets and sidewalks which were reported by the chief of police were promptly repaired.

The Boston Elevated Railway Company has laid 150 feet of new rails on Newton street, and a cross-over on Highland avenue, at Davis square.

7,503.5 square yards of brick and 215 square yards of granolithic sidewalks have been laid; 18,273.5 feet, or nearly three and one-half miles, of edgestone and inside curbing were set; 5,988 square yards of stone gutters and 548 square yards of vitrified brick, granite, granolithic and concrete crossings were laid.

11,810.5 feet, or over two miles, of edgestone were re-set, and 6,328.6 square yards of brick sidewalks re-laid.

80 square yards of crossings and driveways have been paved or re-paved with granite blocks, 280 square yards of granite crossings surfaced with concrete, and 30 square yards of driveways paved or re-paved with brick.

The Cambridge Gas Light Company dug up 6,474 feet of trenches to lay main pipes.

Recommendations.

I would recommend that Medford street, from Broadway to Lowell street, be paved, and that the gutters be paved and the edgestones set on the southerly side of Washington street, from the Boston line to Tufts street; also that Somerville avenue be paved with block stone, from Kent street to Elm street; that Linwood street be macadamized; that Washington street be re-surfaced, from Union square to the Cambridge line; that Jaques street, from Bond street to Temple street, be re-surfaced; and that a new shed be built at the city yard to shelter the water carts, as at present there is not room enough to properly care for them.



JUNCTION OF COLLEGE AVENUE AND PROFESSORS ROW.

Highways Maintenance Account.**CREDIT.**

Appropriation		\$2,100 00
Receipts and credits:—		
Commonwealth of Massachusetts, street railway tax	\$47,392 51	
Boston Elevated railway tax	7,744 52	
Transfer from Highways Construction account	3,807 25	
Fidelity and Deposit Co. of Maryland, Boston Elevated Railway Co., and Patrick McGowan	1,000 00	
Hartford Steam Boiler Inspection and Insurance Co., return premium	5 55	
Ellis and Buswell, use of steam road roller, New England Oil Co., partial payment on repairs of Allen street	70 00	
Sale of ledge stone	182 26	
Materials furnished prior to January 1, 1903, the bills for which remained uncollected that day	500 00	
Value of materials on hand January 1, 1903,	816 64	
Value of tools and property on hand January 1, 1903	508 21	
	20,558 50	
		<hr/>
		\$82,585 44
Total credit		<hr/>
		\$84,685 44

DEBIT.

Expenditures:—

For repairs of sundry streets as per table B, at end of this report	\$8,559 39
General repairs of streets	13,000 25
Repairs of stone paving	582 75
Repairs and maintenance of gravel sidewalks	4,748 09
Repairs of street crossings	1,622 56
Cleaning streets	14,972 06
Removing snow and ice and care of slippery sidewalks, Maintenance of Middlesex-avenue bridge	2,590 86
Teaming coal to schoolhouses	50 77
Teaming coal for relief stations (city to be reimbursed in July, 1904)	1,056 60
Wakefield gravel land, taxes	63 20
Middlesex avenue widening	101 50
Raising house of Mrs. Helen F. Ingalls, 12 Munroe street, on account of change in grade	144 90
Paving in front of stand pipes	449 72
Repairs of gutters	60 55
Repairing fence at Washington-street bridge	2,881 98
Rolling walks and furnishing crushed stone for public grounds	23 51
Street signs	154 01
Care of subways	610 71
Removing trees	222 30
Trimming trees	454 30
Setting trees	253 40
Blacksmithing	79 00
Carpentering	488 50
Cutting edgestones at catch-basins	149 63
	153 78

Amount carried forward \$53,474 32

Amount brought forward	\$53,474 32
Rolling trenches	18 39
Constructing driveway for American Tube Works	125 00
Constructing driveway at Armory	23 70
Constructing driveway in front of estate of Daniel M. Smith	33 43
Superintendent's salary	2,000 00
Superintendent's team, board of one horse	260 03
Sundry expenses	3,949 78
Books, stationery and printing	82 56
Private work, the bills for which remained unpaid December 31, 1903	89 96
Value of materials on hand this day	1,868 45
Value of tools and personal property on hand this day:—	
Horses	\$4,500 00
Carts and implements used with horses	4,027 00
Harnesses and horse clothing	716 00
Stable utensils and property	210 25
Tools	1,417 20
Steam road rollers	7,800 00
Stone crusher and fittings	1,573 00
	<hr/>
	\$20,243 45
Profit and loss on tools, property, and materials	2,516 37
	<hr/>
Total debit	<u>\$84,685 44</u>

Highways, Construction Account.

CREDIT.	
Appropriation	\$15,000 00
Transfer from Stone-avenue and Munroe-street account	5 00
Transfer from Paved Gutters and Crossings account	94 36
Transfer from Middlesex-avenue Bridge account	109 63
Transfer from Watering Streets account	1,272 08
	<hr/>
	\$16,481 07
Less transfer to Highways Maintenance account	\$3,807 25
Less transfer to Sidewalks Construction account	1,185 50
Less transfer to Sidewalks Maintenance account	1,185 35
	<hr/>
	6,178 10
	<hr/>
Net credit	\$10,302 97

DEBIT.

Expenditures:—

Construction or partial construction of streets as appears by table A at end of this report	\$19,838 75
Less assessments	10,646 46
	<hr/>
	\$9,192 29
Addie Russell, damage to estate Broadway caused by change of grade	500 00
Abatement of highway betterment assessments of 1902	261 44
	<hr/>
Amount carried forward	\$9,953 73

Amount brought forward	\$9,953 73
Abatement of highway betterment assessment on Elm- wood street	6 25
Advertising and recording releases for streets not con- structed	36 30
Hammond street betterment assessment, portion as- sumed by city	68 96
Printing slips, notices for laying out streets	3 25
Total debit	<u>\$10,068 49</u>
Balance unexpended	<u><u>\$234 48</u></u>

Highways, Paved Gutters and Crossings.

CREDIT.		
Appropriation	\$20,600 00	
Less amount overdrawn in 1902	\$9,382 27	
Transferred to Highways Con- struction account	94 36	
	<u>9,476 63</u>	
		\$11,123 37
Value of materials on hand January 1, 1903		1,414 30
Net gain on materials		309 33
Total credit		<u>\$12,847 00</u>
DEBIT.		
Expenditures:—		
For paving gutters as per table F	\$11,084 31	
Street crossings as per table J	1,363 69	
Value of materials on hand this day	396 00	
Total debit		<u>\$12,847 00</u>

Sidewalks Construction Account.

CREDIT.		
Appropriation	\$11,350 00	
Less amount overdrawn in 1902	1,525 09	
	<u>\$9,824 91</u>	
Transfer from Highways Construction ac- count	1,185 50	
Value of materials on hand January 1, 1903,	151 29	
Net gain on materials	81 08	
Total credit		<u>\$11,242 78</u>
DEBIT.		
Expenditures:—		
For forty-one sidewalks constructed as per table C	\$20,592 71	
Less assessments	10,295 65	
	<u>\$10,297 06</u>	
Amount carried forward		\$10,297 06

Amount brought forward	\$10,297 06	
Constructing sidewalks as per table D	350 85	
Constructing sidewalks as per table E	107 79	
Constructing sidewalks for William H. Berry, Hall street, he having furnished the edgestone	66 58	
Public Buildings Maintenance, School-houses, constructing sidewalk Poplar street, in front of Bennett school	30 08	
Abatement of sidewalk assessment, Lowell and Tower streets	244 22	
Value of materials on hand this day	146 20	
Total debit		<u>\$11,242 78</u>

Sidewalks Maintenance Account.

CREDIT.

Appropriation	\$6,000 00	
Transfer from Highways Construction account	1,185 35	
Total credit		<u>\$7,185 35</u>

DEBIT.

Expenditures:—

Bricks used in repairing sidewalks	\$898 79
Repairing concrete sidewalks	329 56
Labor	5,064 53
City teams	495 60
Gravel and sand	330 44
Paving blocks	41 74
Crushed stone	10 54
Cement	1 15
Books	13 00

Total debit	<u>\$7,185 35</u>
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Highways, Watering Streets.

CREDIT.

Appropriation	\$1,000 00	
Receipts:—		
Assessments and contributions from abutters	\$20,725 80	
Insurance on water carts (collected from contractors)	62 00	
	<u>\$20,787 80</u>	
Less transfer to Highways Construction account	1,272 08	
Total credit		<u>\$19,515 72</u>
		<u>\$20,515 72</u>

DEBIT.

Expenditures:—

Charles I. Bucknam, supervising street watering	\$800 00
Teaming	17,032 01
J. L. and H. K. Potter, three new water carts	1,000 00
Repairing carts	1,413 21
Board of horse and shoeing	125 50
Clerical service, making up assessment list,	96 00
Incidentals	49 00

Total debit		<u>\$20,515 72</u>
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Highways, Removing Brown-Tail Moths.

CREDIT.

Appropriation	\$3,000 00
Receipts:—	
From Public Grounds account	\$37 00
From Public Buildings Maintenance, Schoolhouses account	27 63
From sundry persons	126 46
	<u>191 09</u>
Total credit	<u>\$3,191 09</u>

DEBIT.

Expenditures:—

Labor, removing brown-tail moths from trees	\$3,588 00
City teams, use of	198 80
	<u>\$3,786 80</u>
Amount overdrawn	<u>\$595 71</u>

Thorndike-street Subway.

CREDIT.

Appropriation	\$3,800 00
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DEBIT.

Boston and Maine Railroad, partial payment on account of constructing subway	\$2,000 00
Lumber	8 93
	<u>\$2,008 93</u>
Total debit	<u>\$2,008 93</u>
Balance unexpended	<u>\$1,791 07</u>

TABLE A.
Streets Constructed or Partially Constructed in 1903.

STREET.	FROM	TO	CONSTRUCTED WHOLLY OR PARTIALLY.	LENGTH IN FEET.	COST.
Bedford	South street	Cambridge line	Materials used in 1902	....	\$51 19
Bolton	Oak street	Houghton street	Wholly	476	394 98
Carlton	Somerville avenue	Lake street	Wholly	300	156 36
Clarendon avenue	Broadway	Cambridge line	Partially	330	1,613 41
Dane avenue	Dane street	Leland street	Wholly	569	546 07
Durham	Beacon street.	Hanson street	Wholly	423	478 77
Elmwood	Holland street.	Cambridge line	Wholly	1,057	1,004 06
Fenwick	Heath street	Broadway	Wholly	351	286 99
Fenwick	Heath street	Jaques street	Wholly	250	563 51
Fremont	Main street	Meacham street	Wholly	612	893 40
Gorham	Holland street.	Howard street	Wholly	763	564 00
Henry avenue	Highland avenue	Lexington avenue	Wholly	290	363 92
Houghton	Cambridge line	Springfield street	Wholly	653	693 24
Ibbetson	Kimball street	Lowell street	Partially	275	128 30
Jay	Holland street	Howard street	Wholly	534	348 12
Kingston	Meacham road	Cambridge line	Wholly	647	366 71
Knowlton	Junc. Wash. and Tufts sts.	N. E. line, Estate No. 37.	Wholly	461	652 18
Line	Washington street	Cambridge line	Partially	....	22 30
Marion	Wyatt street, Northerly	Land of Dimick	Materials used in 1902	....	1 54
Maple	Poplar street	Medford street	Wholly	699	795 96
Montrose	School street	Sycamore street	Wholly	886	504 55
Packard avenue	Broadway	Professors row	Partially	850	2,376 44
Partridge avenue	Vernon street	Medford street	Partially	975	560 01
Pembroke	Central street	Sycamore street	Wholly	430	418 55
Poplar	Somerville avenue	Joy street	Wholly	666	729 15
Carried forward				12,497	\$14,513 71

TABLE A.—Concluded.

STREET.	FROM	TO	CONSTRUCTED WHOLLY OR PARTIALLY.	LENGTH IN FEET.	COST.
Professors row .	College avenue .	Brought forward	.	12,497	\$14,513 71
South Church .	Somerville avenue .	Curtis street .	Partially .	2,000	1,585 78
South Church .	Church-street place	Church-street place	Wholly .	246	1,058 02
Sycamore .	At both ends R. R. bridge	Lake street .	Wholly .	94	62 09
Tennyson .	Medford street	.	Wholly .	...	188 85
Thorndike	At both ends subway	Pembroke street	Wholly .	405	340 14
Veazie .	Walnut street .	.	Wholly .	...	29 31
Warren .	Powder House square	Bradley street .	Wholly .	392	294 72
Westminster .	Broadway	Medford line .	Wholly .	500	539 66
Wilton .	Lowell street .	Electric avenue	Partially .	...	38 00
Willoughby .	Central street .	Lawrence street	Wholly .	470	377 40
Windom road, now Co- lumbus avenue.	Angle .	Sycamore street	Wholly .	427	357 10
		Washington street .	Wholly .	277	503 97
Length in feet and cost				17,308	\$19,838 75

TABLE B.
Streets Repaired.

STREET.	FROM	TO	DESCRIPTION OF WORK.	FEET.	COST.
Allen street . . .	Somerville avenue . .	Charlestown street . .	Macadamized . . .	680	\$364 52
Beacon street . . .	East Cambridge line . .	Somerville avenue . .	Macadamized . . .	6,100	3,305 90
Boston avenue . . .	Medford line . . .	Mystic river . . .	Macadamized . . .	910	291 61
Columbus avenue . . .	Walnut street . . .	Angle . . .	Macadamized . . .	900	332 50
Lake street . . .	Church street . . .	Carlton street . . .	Macadamized . . .	300	120 19
Medford street . . .	Dartmouth street . . .	School street . . .	Macadamized . . .	300	144 77
Mystic avenue . . .	Middlesex avenue . . .	Cross street . . .	Macadamized . . .	400	162 21
Newton street . . .	Concord avenue . . .	Webster avenue . . .	Macadamized . . .	600	235 36
Pearl street . . .	Cross street . . .	Mt. Vernon street . .	Macadamized . . .	2,000	1,793 34
Somerville avenue . . .	East Cambridge line . .	Medford street . . .	Macadamized . . .	1,600	1,592 89
Sunnyside avenue . . .	Walnut street . . .	Wigglesworth street . .	Macadamized . . .	300	104 07
White-street place . . .	White street . . .	Southeasterly . . .	Macadamized . . .	200	112 03
Length in feet and cost				14,290	\$8,559 39



POPLAR STREET, FROM SOMERVILLE AVENUE.



MAPLE STREET, FROM POPLAR STREET.

TABLE C.

Sidewalks Constructed Where the Materials Were Furnished by the City and One-half the Cost Was Assessed
Upon the Abutting Estates.

STREET.	SIDE.	FROM	TO	FEET OF EDGE-STONES.	YARDS OF BRICKS.	COST.
Adrian	Southerly	Marion street	Joseph street . . . . .	....	402.6	\$380 21
Bolton	Both	Oak street	Houghton street	783.4	....	702 99
Burnside avenue	Southeasterly	Elm street	Summer street . . . . .	....	500.3	464 68
Carlton	Both	Somerville avenue	Lake street	630.3	417.4	812 43
Cedar	Northwesterly	Highland avenue	Spencer avenue	199.6	....	180 13
Claremont	Westerly	Holland street	Mead street . . . . .	....	388.4	340 60
Clifton	Both	Appleton street	Morrison avenue . . . . .	....	292.1	266 87
College avenue	Northeasterly	Kenwood street	Broadway . . . . .	....	450.6	397 59
Crocker	Northwesterly	Crown street	Highland avenue . . . . .	....	358.6	322 67
Church (south)	Both	Somerville avenue	Lake street	649.7	....	514 26
Gorham	Southeasterly	Holland street	Howard street	746.6	....	572 11
Grant	Northwesterly	Broadway	Jaques street . . . . .	....	343.4	317 86
Henry avenue	Both	Highland avenue	Lexington avenue	612.8	....	504 66
Houghton	Both	Springfield street	Cambridge line	974.7	....	795 56
Hudson	Southwesterly	Lowell street	N. W. line, Est. No. 136	....	468.7	462 66
Ibbetson	Both	*Somerville avenue	Lowell street	877.1	....	782 51
Jay	Southerly	Holland street	Howard street	536.5	....	416 81
Kingston	Both	Meacham road	Cambridge line	841.4	....	683 49
Kidder avenue	Northeasterly	College avenue	Powder House terrace	330.2	239.2	495 34
Lincoln avenue	Southwesterly	Lincoln street	Mt. Vernon street	423.7	....	347 70
Lincoln avenue	Northeasterly	Lincoln street	Mt. Vernon street	252.4	161.4	322 80
Line	Easterly	Washington street	Cambridge line	1,751.4	....	1,442 66
Lowell	Southeasterly	Highland avenue	Opp. Crown street . . . . .	....	398.1	334 00
Maple	Both	Poplar street	Medford street	1,096.8	....	895 43
Partridge avenue	Both	Medford street	Vernon street	1,984.4	....	1,577 96
Pembroke	Both	Central street	Sycamore street	842.5	....	713 30
			Carried forward	13,533.5	4,420.8	\$15,047 28

* Where not already laid.

TABLE C.—Concluded.

STREET.	SIDE.	FROM	To	FEET OF EDGE STONES.	YARDS OF BRICKS.	COST.
Porter .	Southeasterly	Highland avenue	Brought forward .	13,533.5	4,420.8	\$15,047 28
Robinson .	Southerly	Ames street	Crown street	....	385.2	361 88
School .	Westerly	*Landers street	Bartlett street	....	360	289 83
Tennyson .	Southerly	Pembroke street	Somerville avenue	195.6	148.9	290 75
Tennyson .	Northerly	Pembroke street	Medford street	386.2	....	314 10
Thorndike .	Both	Pembroke street	Medford street	398.1	....	300 38
Tower .	Westerly	Arlington branch R. R.	Kingston street	189.9	....	141 40
Tower .	Westerly	S. W. line, Hospital Est.	Crown street	282.3	155	450 92
Thurston .	Southeasterly	Highland avenue	Somerville Hospital	....	537.5	486 07
Trull .	Southeasterly	Medford street	Richdale avenue	....	211.5	187 96
Veazie .	Both	Medford street	Vernon street	1,037.4	....	868 19
Waldo .	Both	Walnut street	Bradley street	723.9	....	565 16
Wesley .	Westerly	Highland avenue	Hudson street	....	389.8	332 18
William .	Southerly	Pearl street	Northeast'y line, Est. 20	....	218.1	183 85
Willoughby	Both	College avenue	Chandler street	....	124.3	125 38
		Central street	Sycamore street	846.4	....	647 38
			Total . . .	17,593.3	6,951.1	\$20,592 71

* Where not already laid.

TABLE D.

**Sidewalks Constructed where the Bricks and Edgestones were
Furnished or Paid for by the Abutters.**

For	Street.	Feet of Edgestones.	Yards of Bricks.	Cost to City.
Michael H. Dewire .	121-131 Beacon street .	12.2	154	\$86 65
W. J. Edwards . .	252-258 Beacon street .	....	114.2	42 38
Thomas Kilmartin .	484-486 Medford street	....	74.5	23 93
John D. Taapken and }	Holland street and }	188	298.9	176 23
V. H. Wooster . . }	Teele square . . }			
Emma Walsh . . .	20 School street . .	37.2	25	21 66
	Total . . .	237.4	666.6	\$350 85

TABLE E.

**Granolithic Sidewalk Laid (the Edgestone being already set), the
Abutters Paying the Excess above the Equivalent of One-half
the Cost of a Brick Sidewalk.**

For	Street.	Square Yards.	Cost to City.
Allen F. Carpenter . .	Laurel street . . .	60.1	\$30 06
Grace M. Grant . . .	54 Benton road . . .	25.15	12 57
Wilbur F. Mansfield .	775 Broadway . . .	37.6	18 80
Edward I. Morrison .	97 Rogers avenue . .	20.2	10 10
New England Mutual }	Benton road . . .	72.52	36 26
Life Insurance Co. }			
	Total . . .	215.57	\$107 79

TABLE F.
Gutters Paved in Connection with Setting Edgestones.

STREET.	Side.	From	To	Square Yards.	Cost.
Bolton	Both	Oak street	Houghton street	261	\$500 98
Carlton	Both	Somerville avenue	Lake street	210	340 12
Cedar	Northwesterly	Highland avenue	Spencer avenue	67	111 35
Church (south)	Both	Church-street place	Lake street	54	103 52
Gorham	Southeasterly	Holland street	Howard street	249	469 30
Hall	Southwesterly	In front of estate of Wil	liam H. Berry	67	137 43
Henry avenue	Both	Highland avenue	Lexington avenue	204	413 95
Holland	Southwesterly	In front of estate of John	D. Taapken	63	155 00
Houghton	Both	Springfield street	Cambridge line	325	662 30
Ibbetson	Both	Somerville avenue	Lowell street	341	672 87
Jay	Southeasterly	Holland street	Howard street	179	364 73
Kidder avenue	Northeasterly	College avenue	Powder House terrace	110	223 67
Kingston	Both	Meacham road	Cambridge line	280	534 79
Line	Easterly	Washington street	Cambridge line	584	1,128 69
Lincoln avenue	Both	Lincoln street	Mt. Vernon street	188	335 82
Maple	Both	Poplar street	Medford street	304	823 87
Partridge avenue	Both	Vernon street	Medford street	772	1,195 00
Pembroke	Both	Central street	Sycamore street	281	369 27
Professors row and } . . . . .	. . . . .	Materials used in 1902 . . . . .	. . . . .	. . . . .	57 05
College avenue . . . . .	. . . . .	At the Bennett school . . . . .	. . . . .	12	61 95
Poplar	Northwesterly	In front of Est. No. 20 . . . . .	. . . . .	12	29 25
School	Westerly	Somerville avenue	Landers street	65	138 80
*School	Westerly	Pembroke street	Medford street	262	335 59
Tennyson	Both	Arlington Branch R. R.	Kingston street	63	174 85
Thorndike	Both	N. E. line, Hospital Est.	Crown street	110	276 76
Tower	Westerly	Medford street	Vernon street	346	669 11
Trull	Southeasterly	Walnut street	Bradley street	241	430 22
Veazie	Both	Central street	Sycamore street	282	362 07
Willoughby	Both . . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Total				5,932	\$11,084 31

* Where not already laid.

TABLE G.
Driveways Constructed at Expense of Abutters.

FOR.	LOCATION.
William J. Edwards	256 Beacon street.
J. Frank Mixer	119 Central street.
Peter Murray	34 Maple street.
John McCarthy	23 Maple street.
A. B. Parker	17 Gilman street.
Peter F. Quinn	24 School street.
Julia A. Record	Broadway at Record court.
Estate of John P. Squire	109 Prospect street.
Frank A. Titus	48 Broadway.

TABLE H.
Driveway Discontinued at Expense of Abutter.

FOR.	LOCATION.
Ellen K. Larsen	6 Mossland street.

TABLE I.
Streets Accepted in 1903.

STREET.	WARD.	FROM	TO	WIDTH, FEET.	LENGTH, FEET.
Clarendon ave. .	7	Broadway .	Cambridge line	40	1,217
Dane ave. .	2	Dane st. .	Leland st. .	30	569
Durham st. .	2	Beacon st. .	Hanson st. .	40	423
Eastman ter. .	6	Highland ave.	So'westerly end	40	296
Hillside park .	3	Walnut st. .	Westerly end .	40	196
Knowlton st. .	1	Tufts st. . }	No'easterly line	40	461
Packard ave. .	7	Broadway .	Estate No. 37		
Pearl st. .	1	Mt. Vernon st.	Professors row	60	1,758
			Crescent st. .	37	341
		Length in feet			5,261

TABLE J.
Street Crossings Laid.

BRICK.

Arlington street, northwesterly side, across Hathorn street.
 Broadway, southwesterly side, across Hathorn street.
 Curtis street, northwesterly side, across Ware street.
 Grant street, northwesterly side, across Sewall street.
 Highland avenue, across same, at northwesterly side of Benton road.
 Highland avenue, across same, at southeasterly side of Benton road.
 Highland avenue, across same, at northwesterly side of Cherry street.
 Highland avenue, across same, at southeasterly side of Hancock street.
 Highland avenue, across same, at northwesterly side of Waldo street.

GRANITE FLAGGING.

Broadway, across same, at northwesterly side of Cross street.
 Broadway, across same, to parkway, at northwesterly side of Melvin street.
 Holland street, across same, at southeasterly side of Moore street.

CONCRETE.

Broadway, across same, at northwesterly side of Billingham street.
 Broadway, across same, at northwesterly side of College avenue.
 Broadway, across same to car track, at southeasterly side of Glenwood road.
 Broadway, across same, at southeasterly side of Liberty avenue.
 Broadway, across same, at northwesterly side of Rogers avenue.
 Broadway, across same, at southeasterly side of Warner street.
 Broadway, across same, near Winchester street.
 Broadway, across same, at southeasterly side of Willow avenue.
 Central street, southeasterly side, across Pembroke street.
 College avenue, northwesterly side, across Summit street.
 Forster street, southwesterly side, across Tennyson street.
 Morrison avenue, across same, at northwesterly side of Highland road.
 Morrison avenue, across same, at northwesterly side of Willow avenue.
 Morrison avenue, across same, at southeasterly side of Willow avenue.
 Richdale avenue, across same, at northwesterly side of Essex street.
 Willow avenue, across same, at northeasterly side of Morrison avenue.
 Willow avenue, across same, at southwesterly side of Morrison avenue.

Length of Accepted Streets in Each Ward.

											Miles.
Ward 1	.	.	.	.	.	.	.	.	.	.	9.033
" 2	.	.	.	.	.	.	.	.	.	.	7.591
" 3	.	.	.	.	.	.	.	.	.	.	6.907
" 4	.	.	.	.	.	.	.	.	.	.	8.808
" 5	.	.	.	.	.	.	.	.	.	.	10.083
" 6	.	.	.	.	.	.	.	.	.	.	10.755
" 7	.	.	.	.	.	.	.	.	.	.	13.913
Total length of accepted streets in the city											67.090

Respectfully submitted,
 JOHN P. PRICHARD,
 Street Commissioner.



~ ~ Engine House - Ward 2 ~ ~
 ~ ~ Somerville, Mass ~ ~
 ~ ~ Walter T. Littlefield Commissioner of Public Buildings ~ ~
 ~ ~ Architect ~ ~

NEW FIRE STATION IN UNION SQUARE
 Designed by Walter T. Littlefield, Commissioner of Buildings

REPORT OF COMMISSIONER OF PUBLIC BUILDINGS.

OFFICE OF COMMISSIONER OF PUBLIC BUILDINGS, }
City Hall, Somerville, January 1, 1904. }

To the Honorable, the Mayor, and the Board of Aldermen of the City of Somerville:—

Gentlemen: I have the honor, as commissioner of public buildings, to submit the following report of this department for the year 1903.

Section 41, article third, of the city charter, relating to this department, is as follows: "The public buildings department. This department shall be under the control of the commissioner of public buildings, who shall have charge of the construction, alteration, repair, maintenance and care of public buildings, and shall also be the inspector of buildings."

In addition to the regular work of this department during the year 1903, there have been several needed improvements made in some of the public buildings of the city. A description of this special work will be found fully outlined in this report. The inspection of private building construction, which has been made during the year, has been performed systematically, and, as a result, the various builders have carried on their work with very few violations of the building ordinances.

Inspection of Buildings.

There have been issued, during the year 1903, permits for 237 new buildings and alterations. This number is fifteen less than in 1902.

The total estimated cost of new buildings and alterations in 1903 was \$635,259.00, while the same in 1902 was \$791,175.00, showing a decrease of \$155,916.00.

During the year 1903 there have been made 1,185 inspections of private buildings in the course of construction. These have included the inspections of fire-stopping, chimneys, buildings damaged by fire, and foundations.

The following is a table showing the number of permits in each ward for buildings, etc., and the uses for which they were intended:—

BUILDINGS.	WARDS.							TOTALS.
	1	2	3	4	5	6	7	
Dwellings	11	14	8	7	14	45	61	160
Dwellings and stores . .	4	4	0	4	4	0	4	20
Stables	1	0	1	1	0	0	0	3
Miscellaneous	7	6	10	6	6	6	7	48
Brick buildings	1	2	0	2	0	1	0	6
Totals	24	26	19	20	24	52	72	237

Inspection of Plumbing.

The number of plumbing permits issued during the year was	382
Permits for plumbing in new buildings	142
Permits for plumbing in old buildings	240
Number of buildings in which pipes were tested by water	287
Number of master plumber's licenses, 7 at \$2.00	\$14 00
Number of journeyman plumber's licenses, 5 at \$.50	2 50
Number of master plumber's licenses renewed, 38 at \$.50	19 00
Number of journeyman plumber's licenses renewed, 34 at \$.50	17 00

One application for journeyman plumber's license was rejected.

Amount received in fees	\$52 50
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Latin High School.

At the Latin high school, a radical change was made in the arrangement of the rooms on the first floor. The large classroom was reduced in size, and two additional recitation rooms arranged on the westerly side of the building. This change was made necessary by the increased attendance of pupils at this building, and a lack of sufficient accommodations for recitations.

English High School.

At the English high school, an electric switch board and motor generator was installed on the third floor of the building, in the apparatus room adjoining the physical laboratory. This apparatus is used in connection with the work of the chemical and physical laboratories, and the stereopticon in the lecture hall.

Police Building.

At the police department building, an entire change of the rooms on the second floor was made, which gives this space to the uses of the police department. These rooms were formerly occupied by the militia company. The arrangement of the partitions, adjacent to the private offices of the chief of police, was

changed somewhat, and the walls, ceilings, and woodwork of all the rooms was thoroughly cleaned and re-painted or re-varnished. This general renovation was also carried out on the first floor, and is at the present time nearing completion.

The rearrangement of partitions, the general cleaning and painting, and the refurnishing have made the police quarters very attractive and comfortable, and the city now has police accommodations as good as any in the state.

Hose Number Two.

The fire department building on Marshall street, occupied by hose company number 2, was given a thorough overhauling, and the interior of the building was cleaned and re-painted throughout. In addition to this work a new hot water heating apparatus was installed, which is in operation at the present time and giving perfect satisfaction.

Bingham School.

In accordance with an order passed by the board of aldermen, his honor, the mayor, requested this department to prepare drawings and specifications for an eight-room addition to the Bingham school on Lowell street.

Drawings and specifications were prepared and estimates asked for, which were received, and opened in the mayor's office, as follows:—

Dillon Brothers	\$31,639 00
Arthur W. Berry	29,500 00
Lord Brothers	28,334 00
William Crane	27,570 00
George M. Davis & Son	26,824 00
Orne and Lawrence	26,670 00
J. M. Andrews & Son	24,990 00
F. C. Alexander	24,670 00
John E. Locatelli	23,600 00

The lowest bidder was John E. Locatelli, of Somerville, and he was awarded the contract.

The work on the addition was commenced immediately after the contract was signed, has progressed satisfactorily, and is fast nearing completion. It is expected that the new part will be ready for occupancy April 1, 1904.

Estimates were received for the heating and ventilating of the addition to the Bingham school, as follows:—

Cleghorne & Co.	\$5,300 00
W. B. Ross	4,893 00
Huey Brothers	4,697 00
Bradlee & Chatman	4,687 00
Merrill & Co.	4,638 00
Alexander Duncan & Co.	4,436 00
A. A. Sanborn & Co.	4,335 00

The lowest bidder was A. A. Sanborn & Co., and they were awarded the contract.

Estimates were also received for the plumbing work in the addition to the Bingham school as follows:—

Thomas F. Martin	\$1,995 00
Armstrong Brothers	1,873 00
C. W. Cahalan	1,862 00

The lowest bidder was C. W. Cahalan, and he was awarded the contract.

Martha Perry Lowe School.

The new Martha Perry Lowe school was completed during the year and opened for school purposes at the beginning of the school term in September.

Early in the year estimates were requested for the heating and ventilating and also for the plumbing work in the building. The following estimates were received:—

HEATING AND VENTILATING.

James Tucker & Sons	\$4,049 00
Cleghorne & Co.	4,000 00
Braman, Dow & Co.	3,931 00
Laskey, Whitten and Jackson	3,867 00
Albert B. Franklin	3,834 00
A. A. Sanborn & Co.	3,795 00
Merrill Company	3,749 00
John F. Foster	3,650 00
Pierce & Cox	3,645 00
Isaac Coffin & Co.	3,628 00
Alexander Duncan & Co.	3,492 00
Bradlee Chatman Co.	3,585 00
Huey Brothers	3,457 00

PLUMBING.

James Tucker & Sons	\$2,490 00
Frank O. Johnson	2,405 00
Kellsey & Stack	2,193 00
Thomas W. Naughton	2,070 00
Armstrong Brothers	1,849 00
C. W. Cahalan	1,828 00
Thomas W. Martin	1,785 00

The lowest bidders were the Huey Brothers, for the heating and ventilating, and Thomas W. Martin for the plumbing, and they were awarded the contracts.

There are in this building eight classrooms, each having a seating capacity of fifty pupils.

Each classroom has a closet for the storage of books, etc., is fitted with slate blackboards, and is otherwise well equipped for school purposes.

Each classroom has in connection its separate coat room, which is accessible from both the corridor and the room itself.

At either end of the building leading from the stair landings there are three small rooms, one of which is used for teachers' retiring rooms, one for the principal's office, and one for a hospital room.

The entire sanitary system is located in a separate building, which connects with the main building by a corridor, and is two stories in height.

The heating and ventilating is by the gravity system. The steam plant consists of two forty-eight-inch boilers, from which the steam is carried to the heat coils in three air rooms, from which the tempered air is distributed through the building to the various schoolrooms, entering at a point eight feet above the floor. The vitiated air is taken from each room through an opening at the floor into brick ducts which lead through the roof to the open air. Each of these ducts is provided with a steam coil, that there may be a perfect circulation of air continually.

School Buildings, Care and Repair.

In addition to the special work on the various school buildings, which is found described elsewhere in this report, the general work of caring for them has been carried on as usual. The continual demand for modern improvements in the various buildings must be met by the expenditure of a liberal amount of money for such changes.

The work during the year 1903 has been largely routine, and has consisted, in addition to the ordinary repairs, of painting the walls, concreting yards, remodelling of sanitariums, and installing new shades in place of the old shutters.

On account of the large increase of the school attendance each year it is necessary to provide new school furniture and especially has this been the case this year.

Several of the older buildings were fitted with the old-fashioned shutters on the inside of the windows. These have been gradually taken down and cloth shades put in their places. The Highland and Lincoln schools are still fitted with these shutters and I would recommend that they be removed the coming year and shades substituted.

I would recommend that an electric motor be installed at the high schools to operate the ventilation fan, in order that the entire capacity of the boilers may be used for the steam supply. I believe that if this is done a material saving of fuel will be made.

I would recommend that the grounds around the Clark Bennett and the Martha Perry Lowe schools be graded and concreted.

Engine House, Ward Two.

In accordance with an order passed by the board of aldermen, his honor, the mayor, requested this department to prepare drawings and specifications for an engine house in Union square,

on land previously purchased for that purpose. The drawings and specifications were prepared and estimates received and opened in the mayor's office as follows:—

	Estimate for buff brick.	Estimate for red brick.
Stephen Brennan . . .	\$42,192 00	\$40,762 00
Orne & Lawrence . . .	30,223 00	28,973 00
Lord Brothers . . .	29,711 00	28,700 00
John E. Locatelli . . .	29,705 00	28,587 00
William I. Mabie . . .		28,967 00
J. M. Andrews & Son . .	28,675 00	28,021 00
Alfred H. Hines . . .	28,373 00	26,973 00
George M. Davis . . .	28,001 00	29,651 00
Arthur W. Berry . . .	27,200 00	25,660 00
F. C. Alexander . . .	27,185 00	25,685 00
Walsh Brothers . . .	26,995 00	25,366 00

The lowest estimate was in excess of the amount of money available, and the three lowest bidders were invited to submit estimates based on a revised specification. These estimates were received and opened in the mayor's office, as follows:

Arthur W. Berry	\$21,650 00
Walsh Brothers	21,575 00
F. C. Alexander	21,354 00

The lowest bidder was Mr. F. C. Alexander, of Somerville, and he was awarded the contract.

It is expected that this building will be completed and ready for occupancy about August 1, 1904.

Expenditures.

The cost of maintaining the several public buildings, with the amounts of the various classes of expenditure, will be found in the following tables:—

COMMISSIONER OF PUBLIC BUILDINGS.

Classified Expenditures on Schoolhouses for the Year Ending December 31, 1903.

	Carpentry.	Masonry.	Painting and Whitewashing.	Plumbing and Gas-fitting.	Electric Work.	Roofing.	Heating and Ventilating.	Gas Light.	Electric Light and Power.	Fuel.	Janitors.	Furniture.	Supplies.	Miscellaneous.	Totals.
Baxter . . .	\$21.00	.....	\$176.23	\$18.53	.....	\$16.75	\$18.26	\$28.30	.....	\$659.03	\$600.00	.....	\$83.07	\$3.30	\$1,431.49
Bell . . .	27.20	\$204.25	.....	26.75	.....	.....	98.41	197.95	.....	1,497.45	1,051.00	.....	76.08	169.85	3,679.45
Bennett . . .	49.91	55.50	10.10	160.42	.....	.....	216.82	.....	.....	996.10	979.11	\$38.93	48.56	111.42	2,666.87
Bingham . . .	42.95	.....	.....	0.90	.....	.....	48.66	.....	.....	373.23	600.00	.....	6.89	64.25	1,136.88
Brown . . .	8.90	.....	.....	1.35	.....	9.00	.....	20.60	.....	425.34	600.00	.....	26.97	224.79	1,316.95
Burns . . .	28.50	.....	51.85	.....	.....	.....	40.43	46.30	.....	910.31	612.75	.....	58.31	89.89	1,838.34
Carr . . .	19.00	.....	4.55	12.29	.....	.....	101.04	25.20	.....	1,026.28	1,191.75	.....	58.24	83.01	2,521.36
Cummings . . .	19.40	.....	.....	2.20	.....	.....	.....	.....	.....	526.50	391.25	.....	12.06	44.69	995.50
Davis . . .	8.18	.....	71.34	81.50	.....	.....	7.24	46.90	.....	375.89	480.00	.....	14.13	55.80	1,140.98
Durell . . .	35.80	136.80	.....	193.01	.....	5.60	15.88	.....	.....	544.80	540.00	.....	20.13	87.17	1,579.79
Edgerly . . .	4.40	45.90	.....	14.90	.....	5.50	.....	96.80	.....	731.41	815.00	.....	126.49	25.65	1,802.35
Forster . . .	125.54	37.75	110.00	468.71	.....	.....	.....	30.50	.....	883.56	1,763.00	82.00	89.03	165.21	3,906.82
Glines . . .	69.04	.....	102.75	40.38	.....	5.75	.....	4.60	623.97	1,323.94	652.50	.....	55.34	92.27	3,293.94
Hanscom . . .	2.60	.....	2.35	14.10	.....	11.82	.....	.....	.....	496.86	652.50	.....	51.99	5.00	1,241.52
English High . . .	68.45	8.50	8.90	504.94	\$530.67	18.05	85.30	104.22	707.35	1,320.08	1,222.00	5.25	177.90	17.27	3,373.50
Lain High . . .	385.62	86.38	67.85	140.40	.....	43.03	35.90	62.60	.....	862.79	908.00	5.00	120.71	80.03	2,459.22
Highland . . .	82.60	283.61	.....	25.03	.....	.....	143.07	76.80	.....	1,188.62	940.00	.....	107.24	99.35	2,006.07
Hodskins . . .	70.06	.....	.....	127.93	.....	.....	3.25	.....	.....	862.79	908.00	.....	55.84	63.33	2,642.02
Knapp . . .	58.97	112.70	82.60	63.81	.....	.....	4.25	103.70	.....	1,188.62	903.50	4.70	55.84	63.33	2,642.02
Lincoln . . .	48.75	31.00	4.00	75.72	.....	5.50	.....	.....	.....	280.49	481.00	.....	17.05	.....	943.51
Lowe . . .	84.60	.....	1.75	7.83	.....	.....	.....	0.40	.....	12.00	200.00	1,033.10	53.65	18.00	1,411.33
Morse . . .	43.05	73.11	17.40	18.55	.....	.....	75.38	18.50	.....	513.06	867.49	24.63	63.73	12.00	1,726.90
Perry . . .	9.80	64.90	.....	28.65	1.12	.....	116.07	6.40	.....	520.72	600.00	.....	65.47	61.57	1,474.70
Pope . . .	10.17	.....	25.75	16.68	.....	.....	123.54	71.10	.....	1,006.72	865.00	.....	45.37	37.50	2,201.83
Prescott . . .	52.28	.....	.....	47.46	.....	5.50	22.40	101.10	.....	898.80	911.26	.....	51.27	69.90	2,159.97
Prospect Hill . . .	110.96	.....	47.84	.....	.....	.....	.....	.....	1.05	.....	.....	.....	13.40	.....	173.25
	\$1,487.73	\$1,140.40	\$784.96	\$2,092.04	\$531.79	\$126.50	\$1,155.90	\$1,115.87	\$1,549.62	\$17,996.92	\$21,091.78	\$1,193.61	\$1,554.74	\$1,702.75	\$53,524.61

Classified Expenditures on Fire and Departmental Buildings for the Year Ending December 31, 1903.

	Carpentry.	Masonry.	Painting and Whitewashing.	Plumbing and Gas-fitting.	Electric Work.	Roofing.	Heating and Ventilating.	Gas Light.	Electric Light.	Fuel.	Janitors.	Furniture.	Supplies.	Miscellaneous.	Totals.
Central Station . . .	\$122.80	....	....	\$61.95	....	....	....	\$77.40	\$495.29	\$284.49	....	\$21.00	\$137.24	\$19.66	\$1,219.83
Steamer 2 . . .	62.58	....	....	5.15	....	....	....	21.70	149.28	166.59	....	....	58.58	32.10	495.98
Steamer 4 . . .	82.72	....	....	9.47	....	....	....	7.00	92.17	215.00	....	....	69.62	....	475.98
Hose 2 . . .	21.01	....	....	4.06	....	....	....	29.20	78.54	116.71	....	....	30.68	....	280.20
Hose 3, Ladder 1 . . .	33.75	....	....	21.58	....	....	....	20.30	74.91	157.67	....	....	64.72	21.41	394.34
Hose 5 . . .	26.25	....	....	21.00	....	....	....	1.70	87.87	237.07	....	....	88.44	10.75	473.08
Hose 6 . . .	25.15	\$21.25	\$5.50	44.55	....	....	\$26.71	5.90	78.71	39.50	....	21.10	46.04	....	314.41
Hose 7, Ladder 2 . . .	49.73	....	....	9.28	....	\$67.97	....	6.09	64.17	261.16	....	....	231.60	7.00	696.91
Total	\$423.99	\$21.25	\$5.50	\$177.04	....	\$67.97	\$26.71	\$169.20	\$1,120.04	\$1,478.19	....	\$42.10	\$726.92	\$90.92	\$4,350.73
City Hall	\$374.85	....	\$30.22	\$249.83	\$29.27	\$10.90	....	\$16.20	\$1,025.84	\$545.45	\$1,696.00	\$148.00	\$429.23	\$69.70	\$4,626.49
City Hall Annex . . .	31.05	\$8.15	....	2.80	....	3.25	....	....	54.81	182.45	420.00	....	85.57	30.32	818.40
Public Library . . .	71.22	29.88	116.99	....	89.76	....	....	70.20	2,360.34	740.09	1,028.00	80.50	31.05	39.10	4,657.13
Police Station . . .	328.78	218.78	25.00	140.49	....	....	....	542.17	152.84	659.54	1,044.00	167.40	145.79	50.00	3,474.79
Health Department . .	101.80	....	10.50	....	....	90.25	....	....	142.54	36.50	....	....	75.62	....	457.21
Highway Department .	70.50	....	....	34.87	....	10.62	....	....	115.53	....	....	....	49.57	10.75	291.84
Public Grounds . . .	5.00	25.55	4.00	....	....	....	....	....	....	....	....	....	....	....	34.55
Sewers Department . .	....	....	61.10	....	....	4.00	....	....	....	....	....	....	....	....	65.10
Support of Poor . . .	232.23	19.75	2.50	157.90	....	2.42	....	30.10	258.31	310.13	....	....	54.40	....	1,067.74
Water Department . .	56.89	....	1.90	....	....	....	....	....	107.20	46.46	....	....	2.50	....	214.95
Total	\$1,272.32	\$302.11	\$252.21	\$585.89	\$119.03	\$121.44	....	\$655.67	\$4,218.41	\$2,520.62	\$4,188.00	\$395.90	\$873.73	\$199.87	\$15,708.20

Consumption of Fuel.**SCHOOLHOUSES.**

	Tons.
Baxter	70
Bell	165
Bennett	150
Bingham	92
Brown	75
Burns	90
Carr	180
Cummings	30
Davis	35
Durell	50
Edgerly	156
Forster	275
Glines	158
Hanscom	72
High	300
Highland	174
Hodgkins	140
Knapp	164
Lincoln	30
Lowe	45
Morse	170
Perry	75
Pope	150
Prescott	160
	<hr/>
	3,006

FIRE BUILDINGS.

Central fire station	82
Steamer 2	50
Steamer 4	45
Hose 2	28
Hose 3, ladder 1	25
Hose 5	25
Hose 6	35
Hose 7, ladder 2	30
	<hr/>
	320

MISCELLANEOUS.

City hall	95
City hall annex	40
City home	65
Police station	126
Public library	117
	<hr/>
	443

Respectfully submitted,
 WALTER T. LITTLEFIELD,
 Commissioner of Public Buildings.

REPORT OF COMMISSIONER OF ELECTRIC LINES AND LIGHTS.

OFFICE OF COMMISSIONER OF ELECTRIC LINES AND LIGHTS, }
January 1, 1904. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—I submit herewith my eighth annual report, for the year ending December 31, 1903.

Electrical Department.

Under this head comes the care and maintenance of the fire alarm and police signal systems, and all work of an electrical nature belonging to the city.

Fire Alarm.

This most important branch of the electrical department has received its usual careful attention during the year. One new fire alarm box has been added. All boxes in service have been carefully tested and newly painted and varnished. All alarms have been given correctly and promptly, which means quick response on the part of the fire department and small fires in consequence.

A steam whistle has been placed in the East Somerville district, which fills a long-felt want, as it enables the residents of that section to hear the no-school signal on stormy days.

The equipment of this department is as follows: One hundred and two signal boxes, one eight-circuit repeater, one eighteen-circuit fuse board, eight tower strikers, thirty-one gongs, eight indicators, twenty small tappers, forty open circuit tappers, three hundred and ninety-two cells storage battery, and one hundred and twenty-five miles of wire.

A large portion of the old outside construction has been replaced by new, putting this part of the system in good condition.

I would recommend the placing of high tension wires underground, as every year sees more of these dangerous wires on the streets.

A switch-board designed by the commissioner has been placed in the English High school, which gives that school an equipment for electrical experimental work equal to any in the state.

Police Signal.

Several miles of new wire have been run during the year. A new fuse board has been installed in the police station.

The equipment has received its usual careful attention, and is in good working order.

Street Lights.

During the year seven new arc lights and twenty-one new incandescent lights have been placed in service, making a total of four hundred and eighty-five arc lights, four hundred and fifty-three incandescent lights, and three Welsbach lights.

During the coming year several new lamps will be needed, especially on the Powder House boulevard, between Powder House square and North street.

Our lighting service at the present time is especially good, very few outs occurring, and these are remedied very quickly.

ELECTRICAL DEPARTMENT.

CREDIT.

Appropriation	\$7,000 00
Receipts:—	
Sundry persons, cutting wires	25 00
Electrical Department, Steam Fire Alarm Whistle, Ward One, labor, etc.	26 50
Total credit	\$7,051 50

DEBIT.

Expenditures:—	
Salary of commissioner	\$1,300 00
Labor on wires, etc.	3,600 00
Wires, insulators, etc.	1,182 29
Board of two horses	300 00
Wagon repairs	37 50
Harnesses and repairing same	21 85
Printing, expressing and postage	69 85
Fire alarm box	125 00
Incidentals	306 67
Total debit	\$6,943 16
Unexpended balance	\$108 34

STREET LIGHTS.

CREDIT.

Appropriation	\$63,900 00
Receipts:—	
Abutters Westwood road, part cost lighting	54 00
Total credit	\$63,954 00

		DEBIT.	
Expenditures:—			
Electric lighting	. . . . .	\$63,736	21
Welsbach lighting	. . . . .	132	00
Changing location of poles and lights	. . . . .	91	00
Incidentals	. . . . .	34	30
		<hr/>	
Total debit	. . . . .	\$63,993	51
		<hr/>	
Amount overdrawn	. . . . .	\$39	51
		<hr/> <hr/>	

Respectfully submitted,
 EDWARD BACKUS,
 Commissioner of Electric Lines and Lights.

SOMERVILLE WATER WORKS.

SOMERVILLE, MIDDLESEX CO., MASSACHUSETTS.

Area of city, including land and water, about 4.22 square miles.

Population, estimated, 67,000.

Entire population on line of pipe and supplied with water.

Water works owned by City of Somerville.

Construction commenced in 1868.

Source of supply : Metropolitan system, taking water of the
Nashua river at Clinton, Mass.

Mayor

HON. EDWARD GLINES.

Water Commissioner

FRANK E. MERRILL.

Office of the Water Department,

Room 10, City Hall.

Department Buildings and Yard,

Cedar street, near Broadway.

REPORT OF THE WATER COMMISSIONER.

OFFICE OF THE WATER COMMISSIONER, }
February 1, 1904. }

To His Honor, the Mayor, and the Board of Aldermen:—

I present herewith my report for the year ending December 31, 1903, this being the thirtieth annual report made by the water department:—

Water Income.

Water bills have been issued as follows:—

"Annual" water charges, amounting to	\$161,978 00
"Additional" water charges, amounting to	7,977 15
"Metered" water charges, amounting to	61,299 71
	<hr/>
Abatements made on the above charges	\$231,254 86
	6,919 43
	<hr/>
Leaving net amount of bills rendered	\$224,335 43
The account has credit for the amount received from the commonwealth of Massachusetts, distribution of entrance fees, water supplied outside of district, and water furnished water companies, 1903, under sec- tion 3, chapter 488, Acts 1895	1,279 93
	<hr/>
Total amount credited to Water Income account	\$225,615 36

The water income was used under appropriation orders of the board of aldermen as follows:—

For water works purposes:—

Water works maintenance	\$39,076 31
Water works extension	11,530 00
Refunds	1,137 84
Interest on water loan bonds	5,610 00
Maturing water loan bonds	23,000 00
Metropolitan water works assessment	77,288 43
	<hr/>
	\$157,642 58

For other municipal purposes:—

Sewers, maintenance	\$12,300 00
Interest on sewer loan bonds	7,120 00
Maturing sewer loan bonds	10,000 00
Fire department	31,000 00
Reduction of funded debt (balance)	7,552 78
	<hr/>
	67,972 78
	<hr/>
	\$225,615 36

In addition to the appropriations from water income to other municipal purposes enumerated above, water has been furnished without charge to all the city departments that have required its use. The value of this water, based on the charges of the year 1899, is about \$12,000.

Department Receipts and Disbursements.**WATER MAINTENANCE ACCOUNT.**

	Dr.	Cr.
Amount appropriated by board of aldermen from water income		\$39,400 00
Sundry receipts for labor and materials sold		1,842 46
Receipts from other sources		302 00
Amount expended for labor and materials for maintenance of the water works and renewals of pipe	\$39,378 31	
Miscellaneous accounts	1,842 46	
Unexpended balance of appropriation	323 69	
	<hr/>	<hr/>
	\$41,544 46	\$41,544 46

WATER WORKS EXTENSION ACCOUNT.

	Dr.	Cr.
Amount appropriated by board of aldermen from water income		\$11,600 00
Receipts from 144 water service assessments		2,527 28
Sundry receipts for materials sold		109 93
Labor and materials used in extension of the water works	\$14,057 28	
Miscellaneous accounts	109 93	
Unexpended balance of appropriation	70 00	
	<hr/>	<hr/>
	\$14,237 21	\$14,237 21

REFUND ACCOUNT.

	Dr.	Cr.
Amount appropriated by board of aldermen from water income		\$1,000 00
Amount refunded, and abated on charges of previous years, to water consumers	\$1,137 84	
Balance		137 84
	<hr/>	<hr/>
	\$1,137 84	\$1,137 84

Cost of Water Works.

The total cost of the water works on December 31, 1902, as represented by the expenditures from appropriations for water works extension, was	\$801,830 14
Expended during the year 1903, on extension account	14,057 28
	<hr/>
Total expenditures, December 31, 1903	\$815,887 42

Water Debt.

Water loan bonds have been issued on funded debt account to the amount of \$1,017,000; this has been reduced by payments amounting to \$894,000, leaving the water debt on December 31, 1903, \$123,000.

The outstanding bonds mature as follows:—

YEAR.	AMOUNT.	YEAR.	AMOUNT.
1904	\$15,000	1913	\$6,000
1905	6,000	1914	6,000
1906	16,000	1915	5,000
1907	17,000	1916	5,000
1908	7,000	1917	5,000
1909	6,000	1918	5,000
1910	6,000	1919	4,000
1911	6,000	1920	2,000
1912	6,000		

Extension of Street Mains.

Comparatively little has been required of the department during the last year for new street mains. Pipes have been laid for new buildings in Lexington avenue, Lowden avenue, Malvern avenue, Teele street, and Yorktown street, and for circulation in Howard street and School street. In the latter street advantage was taken of the construction of the bridge over the Boston & Maine Railroad tracks to add another connection between the Winter Hill and Central Hill high-service districts. The total number of feet of pipe added to the system was 3,280, and the main pipe mileage of the city is now approximately 88 miles, 2,261 feet.

Renewal of Street Mains.

The year's work has been signalized by the removal of practically the last of the old cement-lined mains and the substitution of cast-iron pipes therefor. The principal work of pipe renewal was carried on in Albion street, Bartlett street (ward 1), Central street, Franklin street, Hudson street, James street, Lowell street, Melvin street, Packard avenue, and Partridge avenue.

Eight leaks in the street mains have occurred; one on six-inch, one on eight-inch, one on twelve-inch, three on fourteen-inch, one on sixteen-inch, and one on twenty-inch pipe.

Hydrants, Gates, etc.

The winter season to date, having been of unusual severity, has demanded more than the ordinary vigilance in the care of the fire hydrant system. An inspection force has been constantly at work on the hydrants during the winter, and their efficiency has been fully maintained. Thirty-one hydrants were set during the past year, and thirteen were removed, the net increase being eighteen, making the total number in the city 973. The Derby Desk Company has set one hydrant in their factory yard, increasing the number of private fire hydrants taking water from the city mains to forty-five.

Forty-seven water gates have been set, and eleven removed or abandoned. The total number in the city is 1,319. Nine blow-offs have been constructed, and there are now 132 connected with the system.

One new waterpost has been set for the street watering department on Curtis street, near Professors row. The waterpost on Broadway, near Franklin street, was removed to a suitable location on Franklin street, near Broadway. The post on Medford street, near Sycamore street, was moved around the corner on Sycamore street, and the one on Gilman street, near Walnut street, was moved to the opposite side of the street. There are sixty-nine waterposts in the city.

Water Services.

One hundred and forty-four new service pipes were laid during the year; the total length was 5,529 feet, and the amount received therefor from property owners supplied was \$2,527.28. The total length of service pipe in the city is approximately sixty-nine miles, 1,379 feet, and the number of house connections 10,854. One hundred and thirty-seven leaks in service pipes were discovered and repaired.

Water Meters.

The mayor, on January 10, officially approved a reduction in the minimum meter rate from \$15 to \$10 per year, and authorized the general installation of water meters. In pursuance of that policy, 369 meters were set during the year, and there are now in operation in the city 638 meters of the kinds and sizes shown in the following table:—

METERS IN USE DECEMBER 31, 1903.

	5/8"	3/4"	1"	1½"	2"	3"	4"	6"	Total.
Nash . . .	76								76
Empire . . .	1								1
Crown . . .	6	6	5	1	2	1	1	1	23
Gem . . .							1		1
Hersey . . .	10		7	1	1	3			22
Hersey Disc	97	8	6	1	2				114
Torrent . .								1	1
Trident . .	88	45	21	6	6	1	1		168
Union . . .	6	10	10	2	5	1	2		36
Union Special	6	14	6						26
Lambert . .	164	6							170
Totals . .	454	89	55	11	16	6	5	2	638
Motor and elevator registers									9
									647

The quantity of water passed through these meters during the year was 56,959,259 cubic feet, or 426,055,257 gallons; the

amount received therefor was \$61,164.59. This gives an average of about 10.74 cents per 100 cubic feet, or about 14.35 cents per 1,000 gallons.

Summary of Pipes and Fixtures.

Following is a general summary of the pipes and fixtures of the water system, December 31, 1903:—

Feet of main pipe (approximately)	. . .	466,901
Feet of service pipe (approximately)	. . .	365,699
Service connections (approximately)	. . .	10,854
Public fire hydrants	. . .	973
Private fire hydrants	. . .	45
Gates	. . .	1,319
Check valves	. . .	7
Meters	. . .	638
Waterposts	. . .	69
Blow-offs	. . .	132
Drinking fountains and troughs	. . .	11

Inventory.

The annual inventory of stock on hand, tools and machinery, teams and stable equipment, pumping apparatus, and furniture, shows a valuation of \$22,971.70; the land and buildings of the department are valued at \$32,000, and the general distribution system of the water works has an estimated valuation of \$865,000.

Metropolitan Water Works.

The metropolitan water board has completed the installation of its Venturi water meters, and now has in this city the following:—

Location.	Service.	Size. Inches.	Throat Diam. Inches.
Professors Row, at Boston avenue	. High	12	3.75
Broadway, at Cedar street	. High	16	5.75
Broadway, at Willow avenue	. Low	16	5.25
Elm street, at Willow avenue	. Low	16	5.75
Medford street, at Central street	. Low	12	3.75
Broadway, at Marshall street	. Low	12	4.25
Pearl street, at Walnut street	. Low	16	5.00
Webster avenue near R. R. crossing	. Low	20	5.75

It has been found that the water consumption of the city has not yet reached a point requiring the use of all these meters, so those in Broadway at Willow avenue and Broadway at Marshall street have been temporarily cut out of service. An average of about 6,000,000 gallons of water passes through the operating meters daily.

The amount of assessments paid by this city as its proportionate part of the cost and operation of the metropolitan water works is here given:—

Year.	Sinking Fund.	Maintenance.	Interest.	Total.
1898	No division made			\$14,250 19
1899	"	"	"	20,975 58
1900	"	"	"	28,689 24
1901	\$12,491 73	\$12,033 79	\$32,291 24	56,816 76
1902	19,014 85	12,955 64	30,427 40	62,397 89
1903	15,748 56	12,763 10	48,776 77	77,288 43

Water Consumption and Waste.

The annual house-to-house inspection for water waste has been carried on in a thorough manner, and repairs have been required wherever defective water fixtures were discovered. In eleven cases where requests for repairs to be made were disregarded it was deemed expedient to set water meters.

The metropolitan water and sewerage board advises that "It is for the interest of every municipality in the district to co-operate with the board in the adoption of all reasonable measures for the prevention of leakages, waste, and misuse of water." The board states that if present conditions of water waste in the metropolitan water district are allowed to continue, the present sources of water supply will prove inadequate within ten years, so that it will be necessary within five years from the time when the Nashua river works are completed to prepare for the construction of new works. The present system of water works will have cost when finished about \$10,000,000, and it is estimated that the cost of the additional works required within the next twenty-five years to supply the probable demand for water, if waste is unchecked, will be at least \$32,000,000 more. And not only is the cost of construction and maintenance of the works for supplying water largely increased by its unnecessary use, but the cost of the sewage systems for the disposal of the water after it has been used is also largely increased, and within a comparatively few years the entire north metropolitan sewerage works must be duplicated, if the quantity of sewage to be provided for continues to increase at the present rate.

The board concludes: "If waste of water is allowed to continue, all the available sources of water supply east of the Connecticut river will be required during the next twenty-five years, and an immense sum of money must be expended for the construction of works to bring to the district water which will serve no useful purpose, but will, on the other hand, cause inconvenience and expense to the metropolitan district through making necessary additional water mains and sewerage works."

The state meters have been in operation since July 1, 1903, and records of the quantity of water supplied to this city have been obtained for that period. These meters are under the control of the metropolitan water and sewerage board, and the statistics of water consumption furnished by the board for the last six months of the year show that this city has used a daily average of eighty-five gallons of water per inhabitant. This figure tallies

very closely with the estimate of eighty-eight gallons per inhabitant made by your Water Commissioner in 1897, by methods necessarily indirect, as the water supplied to us was not then measured.

As the state meters record as well as measure the quantity of water passing through them, it is possible to ascertain the consumption at any given time. From the records thus made, it is shown that for the period between July 1 and January 1 the night consumption of water in this city between one and four o'clock in the morning, at a time when the legitimate use is at its minimum, amounts in the low-service district to a rate of fifty-four gallons per capita, and in the high-service district to thirty-eight gallons per capita, per twenty-four hours.

That the consumption of water is affected considerably by weather conditions is indicated by the following table:—

	Period of hot and dry weather. Week ending July 11, 1903.	Period of cool and rainy weather. Week ending Aug. 8, 1903.	Period of cold weather. Week ending Jan. 9, 1904.
Daily per capita consumption; high service	87	64	92
“ “ “ “ low service	98	80	146

The conclusions are that a considerable waste of water is going on continually in all seasons from defective water pipes and fixtures; that a very large waste of water is caused in the winter season by continual running to prevent freezing, and that in the hot season water is allowed to run more freely than is necessary, for cooling and for sprinkling purposes.

The metropolitan water board has, after careful and extended study, given its opinion that an average of sixty gallons per inhabitant per day is a sufficient supply of water for any community for all necessary and legitimate purposes, and has reaffirmed its early suggestion that the present basis of assessing the state water tax should be changed by substituting the element of water consumption for that of population, making it thus an incentive to the cities and towns in the water district to restrict the water waste.

Appendix.

Further details of the department work during the year, locations of fire hydrants and other water works fixtures, are shown in the tables that follow.

Respectfully,

FRANK E. MERRILL,
Water Commissioner.

Locations of New Mains Laid, Length and Size, Number of Gates, Hydrants, Etc., Set in 1903.

NAME OF STREET.	DESCRIPTION OF WORK.	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		WATER POSTS.
		Size.	No. Feet.	Size.	No.	Kind.	No.	Size.	No.	
Albion st.	Gate	6"	8	8"	1			6"	1	
Albion st.	Blow-off	6"	8	6"	1	Holyoke				
Albion st.	Hydrant	6"	5			Holyoke	1			
Bartlett st. (Ward 1)	Hydrant	6"	35			Holyoke	1			
Beacon st.	Hydrant	6"	35			Holyoke	1			
Beacon st.	Blow-off	6"	11	6"	1	Holyoke				
Central st.	Hydrant	6"	10	2"	1					
Central st.	Waterpost	2"	27	6"	1					
Curtis st.	Blow-off	6"	9			Mathews	1			1
Day st.	Hydrant	6"	7	12"	1					
Earle st.	Gate	6"	29	6"	1					
Elm st.	Blow-off	6"	4	6"	1					
Emery st.	Gate	6"	10	6"	1					
Franklin st.	Blow-off	6"				Holyoke	1			
Franklin st.	Hydrant	6"								
Franklin st.	Gate	6"								
Fremont st.	Gate	6"								
Howard st.	Gate	12"		12"	1					
Howard st.	Street main; from main in Thorndike st. to connection with main in Jay st.	6"	252	6"	1	Holyoke	1			
Hudson st.	Gate	6"	3	6"	1					
Hudson st.	Blow-off	6"	8	6"	1					
Hudson st.	Hydrant	4"	14	4"	1	Holyoke	2	4"	1	
Hudson st.	Gate	6"								
James st.	Hydrant	6"	7	6"	1	Holyoke				
Kent st.	Hydrant	6"	9			Holyoke	1			
Lexington ave.	Street main; from main in Cedar st. westerly to connection with old main in Lexington ave.	6"	722	6"	3					
Lexington ave.	Street main; from main in Fosket st. northerly to south line Kidder ave.	8"	310	8"	2					
Lowden ave.										
	Carried forward		1,523		21		12		6	1

LOCATIONS OF NEW MAINS LAID, LENGTH AND SIZE, NUMBER OF GATES, HYDRANTS, ETC., SET IN 1903.—Concluded.

NAME OF STREET.	DESCRIPTION OF WORK.	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		WATER POSTS.
		Size.	No. Feet.	Size.	No.	Kind.	No.	Size.	No.	
	Brought forward		1,523		21		12		6	1
Lowell st.	Blow-off	4"	10	4"	1			4"	1	
Lowell st.	Gate			12"	2					
Lowell st.	Hydrant	6"	14	6"	2	Mathews	2			
Malvern ave.	Street main; from main in Cameron ave. to main in Yorktown st.	6"	461	12"	1	Mathews	1			
Medford st.	Gate	6"	6	10"	1					
Museum st.	Hydrant			10"	1					
Packard ave.	Gate			10"	1					
Packard ave.	Gate			6"	1					
Pearl st.	Gate			12"	1					
Poplar st.	Blow-off	6"	8					6"	1	
Powder House boul'v'rd	Street main; from connection with main 14' east from east line Curtis st., westerly to a dead end	{ 12"	259	6"	6	Holyoke Mathews	1			
Sacramento st.	Hydrant	6"	11	10"	1		1			
School st.	Street main; from main in Medford st. to connection at Montrose st.	10"	450	10"	2		1			
School st.	Blow-off	{ 2"	8	4"	1			4"	1	
Teele ave.	Street main; from main in Curtis st. easterly to a dead end	{ 4"	11	6"	1					
Teele ave.	Street main; from main in Packard ave. westerly to west line Packard ave.	6"	275	6"	1					
Willoughby st.	Hydrant	6"	41	6"	1	Holyoke	1			
Yorktown st.	Street main; from main at Glendale ave. to connection with Malvern ave.	6"	7							
		6"	190							
	Total . . .		3,280		37		18		9	1

Location and Length of Pipes Relaid, Gates and Hydrants Reset, 1903.

NAME OF STREET.	DESCRIPTION OF WORK.	PIPE LAID.		GATES.				HYDRANTS.			
		Size.		No. feet.	Aband.		Reset.	Aband.		Reset.	
		Aband.	Relaid.		Size.	No.		Kind.	No.		
											Kind.	No.
Albion st.	{ Pipe renewal; from 18' E. from W. line of Central st. } to connection with 6" iron pipe	{ 6" }	8"	1,137	6"	2	8"	1			
Appleton st.	{ Hydrant connection	{ 6" }	6"	14							
Arlington st.	{ Hydrant renewal	{ 6" }	6"	2							
Bartlett st.	{ Pipe renewal; connection with Franklin st.	{ 6" }	6"	3							
Berkeley st.	{ Pipe renewal; from S. line of Washington st. to dead end	{ 3" }	6"	131							
Broadway	{ Hydrant renewal	{ 6" }	6"	3							
Central st.	{ Waterpost removal; moved to Franklin st.	{ 2" }	2"	13							
Centre st.	{ Pipe renewal; from 10' S. from S. line Highland ave. to 14' N. from N. line of Summer st.	{ 12" }	12"	905							
Fiske ave.	{ Pipe renewal; connection with Albion st.	{ 6" }	6"	4							
Franklin st.	{ Pipe renewal; connection with Lowell st.	{ 6" }	6"	7							
Gilman st.	{ Pipe renewal; from main in Broadway to 12' N. from N. line Pearl st.	{ 8" }	12"	1,050							
Glen st.	{ Hydrant connection	{ 6" }	6"	20							
Hudson st.	{ Waterpost removal	{ 2" }	2"	13							
James st.	{ Hydrant renewal	{ 4" }	8"	542							
Linden ave.	{ Pipe renewal; from 9' E. from E. line Cedar st. to connection with 6" iron pipe	{ 6" }	6"	220							
Lowell st.	{ Pipe renewal; from S. line Veazie st. to connection with 6" iron pipe	{ 6" }	6"	17							
Maple st.	{ Hydrant renewal	{ 6" }	12"	1,168							
Medford st.	{ Pipe renewal; from S. line Medford st. to 20' S. from N. line Vernon st.	{ 6" }	6"	14							
Melvin st.	{ Hydrant connection	{ 4" }	6"	6							
	{ Waterpost removal; moved to Sycamore st.	{ 2" }	2"	13							
	{ Pipe renewal; from 8' S. from W. line Bonair st. to connection with 6" iron pipe	{ 4" }	6"	94							
	Carried forward			5,376		7		6			7

LOCATION AND LENGTH OF PIPES RELAID, GATES AND HYDRANTS RESET, 1903.—Concluded.

NAME OF STREET.	DESCRIPTION OF WORK.	PIPE LAID.			GATES.			HYDRANTS.		
		Size.		No. feet.	Aband.	Reset.	No.	Aband.		Reset.
		Aband.	Relaid.					Kind.	Kind.	
	Brought forward			5,376			7			7
Packard ave.	Pipe renewal; from main in Talbot ave. to connection with main north side Powder House boulevard	12"	10"	618						
Packard ave.	Pipe renewal; from 13' S. from S. line Professors row to main in Talbot ave.	12"	12"	254						
Partridge ave.	Pipe renewal; from 9' N. from N. line Medford st. to connection with 6" iron pipe	6"	6"	247						
Pearl st.	Gate renewal	6"	8"	20	12"	1	1	Holyoke	Holyoke	1
Perkins st.	Pipe renewal; connection with Franklin st.	6"	6"	2	6"	1	1	B. M.	Mathews	1
Prescott st.	Hydrant renewal	4"	6"	3						
Professors row	Hydrant renewal	6"	6"	5						
Richardson st.	Pipe renewal; connection with Lowell st.	6"	6"							
School st.	Pipe renewal; from L. S. main in Medford st. to L. S. main in School st.	6"	6"	35	6"	1	1	P. & C. Holyoke	Mathews	1
Summer st.	Hydrant renewal	6"	6"	2						1
Summer st.	Hydrant renewal	8"	8"	1						1
Talbot ave.	Pipe renewal; connection with Packard ave.	6"	6"	7	6"	1	1	Chapman	Chapman	1
Thorndike st.	Gate renewal	6"	6"	80						
Thorndike st.	Pipe renewal; from 70' N. from Kingston st. to S. rail outward track B. & M. R. R.	6"	6"	6						
Vernon st.	Pipe renewal; connection with Lowell st.	6"	6"	3						
Walter st.	Hydrant renewal	6"	6"	19				Bigelow	Holyoke	1
Webster st.	Pipe renewal; connection with Franklin st.	6"	6"	5						
Wilton st.	Pipe renewal; connection with Lowell st.	6"	6"							
	Total			6,683			11			13

Hydrants — Construction Account.

New hydrants have been set in the following locations:—

Albion street, 7 feet west from 110 Albion street, 6-inch Holyoke.
 Bartlett street, 130 feet south from south line of Washington street, 4-inch Holyoke.
 Beacon street, south side Beacon street, 40 feet east from Sacramento street, 6-inch Holyoke.
 Beacon street, south side Beacon street, 2 feet west from Beckwith circle, 6-inch Holyoke.
 Central street, 6 feet north from Oxford street, 6-inch Holyoke.
 Earle street, 4 feet east from Ward street, 6-inch Mathews.
 Franklin street, 55 feet north from Perkins street, 6-inch Holyoke.
 Howard street, 36 feet west from Thorndike street, 6-inch Holyoke.
 Hudson street, 24 feet east from Cedar street, 6-inch Holyoke.
 Hudson street, 364 feet east from Cedar street, 3-inch Holyoke.
 Kent street, 38 feet south from Somerville avenue, 6-inch Holyoke.
 Lexington avenue, 4 feet east from Henry avenue, 6-inch Holyoke.
 Lowell street, 124 feet south from Wilton street, 6-inch Mathews.
 Lowell street, 50 feet north from Richardson street, 6-inch Mathews.
 Museum street, 174 feet west from Beacon street, 6-inch Mathews.
 Powder House boulevard, 197 feet west from Curtis street, 6-inch Holyoke.
 Sacramento street, 142 feet south from Beacon street, 6-inch Mathews.
 Willoughby street, 146 feet west from Sycamore street, 6-inch Holyoke.

Hydrants — Renewal Account.

The following changes have been made in the kind and locations of hydrants:—

Albion street, 6-inch Holyoke hydrant, set 15 feet west from Centre street, and 4-inch Holyoke hydrant removed from 74 feet west from Centre street.
 Appleton street, 6-inch Mathews hydrant, set 15 feet east from Clifton street, and 6-inch Pratt & Cady hydrant, removed from same location.
 Berkeley street, 6-inch Mathews hydrant, set 150 feet east from Hersey street, and 6-inch Boston Machine hydrant removed from same location.
 Franklin street, 6-inch Holyoke hydrant, set 150 feet south from Broadway, and 6-inch Holyoke hydrant removed from 14 feet north from Arlington street.
 Glen street, 3-inch Holyoke hydrant, set 151 feet south from Broadway, and 6-inch Holyoke hydrant removed from 148 feet south from Broadway.
 Linden avenue, 6-inch Holyoke hydrant, set 125 feet south from Gilson terrace, and 6-inch Holyoke hydrant removed from 118 feet south from Gilson terrace.
 Maple street, 6-inch Holyoke hydrant, set 14 feet north from Poplar street, and 6-inch Holyoke hydrant removed from 91 feet north from Poplar street.
 Prescott street, 6-inch Holyoke hydrant, set 330 feet south from Highland avenue, and 6-inch Holyoke hydrant removed from same location.
 Professors Row, 6-inch Mathews hydrant, set 156 feet east from Packard avenue, and 4-inch Boston Machine hydrant removed from same location.
 Summer street, 6-inch Mathews hydrant, set 34 feet east from Banks street, and 6-inch Pratt & Cady hydrant removed from same location.

Summer street, 6-inch Mathews hydrant, set opposite Putnam street, and 6-inch Holyoke hydrant removed from same location.
 Thorndike street, 6-inch Chapman hydrant, set 30 feet north from Kingston street, and 6-inch Chapman hydrant removed from 80 feet north from Kingston street.
 Walter street, 6-inch Holyoke hydrant, set 48 feet west from Bradley street, and 4-inch Bigelow hydrant removed from same location.

Hydrants — Recapitulation.

Number of public hydrants set in 1903	.	.	.	.	.	.	31
“ “ private “ “ “ “	.	.	.	.	.	.	1
							<hr/>
Total number of hydrants set in 1903	.	.	.	.	.	.	32
Number of hydrants removed in 1903	.	.	.	.	.	.	13
Net increase in number of public hydrants, 1903	.	.	.	.	.	.	18
“ “ “ “ “ private “ “	.	.	.	.	.	.	1
							<hr/>
Total net increase in number of hydrants, 1903	.	.	.	.	.	.	19
Total number of public hydrants in the city	.	.	.	.	.	.	973
“ “ “ private hydrants	.	.	.	.	.	.	45
							<hr/>
Total number of all hydrants in the city January 1, 1904	.	.	.	.	.	.	1,018

Locations of Hydrants.

Adams street, 11 feet south from Broadway.
 Adams street, 221 feet south from Broadway.
 Adams street, 266 feet north from Medford street.
 Adams street, 10 feet north from Medford street.
 Adrian street, 93 feet east from Marion street.
 Adrian street, 220 feet south from Joseph street.
 Allen street, 9 feet north from Charlestown street.
 Allen street, 45 feet west from Somerville avenue.
 Allen street, 323 feet west from Somerville avenue.
 Albion street, 396 feet west from Central street.
 Albion street, 15 feet west from Centre street.
 Albion street, 217 feet east from Lowell street.
 Albion street, 7 feet west from 110 Albion street.
 Albion street, 444 feet east from Cedar street.
 Aldersey street, 276 feet west from Walnut street.
 Alpine street, 280 feet east from Cedar street.
 Alpine street, 76 feet west from Princeton street.
 Alpine street, 298 feet west from Lowell street.
 Alston street, 212 feet east from Cross street.
 Alston street, 10 feet west from Shawmut place.
 Ames street, 123 feet west from Central street.
 Appleton street, 3 feet east from Clifton street.
 Appleton street, 41 feet west from Willow avenue.
 Arlington street, 36 feet east from Hathorn street.
 Arthur street, 29 feet south from Broadway.
 Ash avenue, 300 feet north from Meacham street.
 Ashland street, 268 feet south from Summer street.
 Auburn avenue, 239 feet west from Cross street.
 Auburn avenue, 481 feet west from Cross street.
 Austin street, 81 feet south from Mystic avenue.
 Austin street, 66 feet north from Benedict street.
 Austin street, 2 feet north from Broadway.
 Avon street, 233 feet east from Central street.
 Avon street, 572 feet west from School street.
 Avon street, 270 feet west from School street.

Banks street, 310 feet south from Summer street.
Bartlett street (Ward 1), 130 feet south from Washington street.
Bartlett street (Ward 5), 230 feet south from Broadway.
Bartlett street (Ward 5), 223 feet north from Medford street.
Bartlett street (Ward 5), 15 feet south from Ames street.
Bartlett street (Ward 5), 10 feet south from Robinson street.
Beacon street, 316 feet west from Greenwood terrace.
Beacon street, 10 feet east from Stanford terrace.
Beacon street, 46 feet west from Sacramento street.
Beacon street, south side Beacon street, 40 feet east from Sacramento street.
Beacon street, south side Beacon street, 2 feet west from Beckwith circle.
Beacon street, 15 feet west from Kent street.
Beacon street, 4 feet west from Ivaloo street.
Beacon street, 68 feet east from Park street.
Beacon street, 18 feet east from Durham street.
Beacon street, 26 feet east from Washington street.
Beacon street, 90 feet east from Calvin street.
Beacon street, 194 feet east from Calvin street.
Beacon street, 28 feet west from Buckingham street.
Beacon street, 208 feet east from Buckingham street.
Beacon street, 6 feet east from Concord avenue.
Beech street, 4 feet south from Atherton street.
Beech street, 31 feet east from Spring street.
Belmont street, 206 feet north from Spring Hill terrace.
Belmont street, 241 feet north from Summer street.
Belmont street, 243 feet south from Summer street.
Belmont street, 10 feet north from Belmont place.
Belmont street, 222 feet south from Belmont place.
Belmont street, 185 feet north from Somerville avenue.
Benedict street, 33 feet east from Mystic street.
Bennett street, 166 feet east from Prospect street.
Benton road, 2 feet north from Cambria street.
Benton road, 28 feet south from Highland avenue.
Berkeley street, 8 feet east from Central street.
Berkeley street, 150 feet east from Hersey street.
Berkeley street, 28 feet west from School street.
Berkeley street, 212 feet west from Hersey street.
Billingham street, 126 feet north from William street.
Bolton street, 203 feet north from Houghton street.
Bolton street, 3 feet south from Oak street.
Bonair street, 26 feet west from Cross street.
Bonair street, 90 feet east from Autumn street.
Bonair street, 121 feet east from Arthur street.
Bonair street, 67 feet east from Dana street.
Bonair street, opposite Melvin street.
Bonair street, 117 feet east from Walnut street.
Bond street, 63 feet south from Jaques street.
Bonner avenue, 171 feet north from Washington street.
Boston avenue, 110 feet south from bridge over Mystic river.
Boston avenue, 492 feet north from Gove street.
Boston avenue, 65 feet north from Highland road.
Boston street, 11 feet west from Prospect Hill avenue.
Boston street, 207 feet west from Bigelow street.
Boston street, 87 feet east from Bigelow street.
Boston street, 6 feet north from Munroe street.
Bow street, 102 feet north from Warren avenue.
Bow street, 23 feet west from Wesley park.
Bow street, 25 feet east from Bow-street place.
Bow street, 74 feet north from Walnut street.
Bow-street place, 193 feet west from Bow street.

Bowdoin street, 65 feet north from Fremont avenue.
Bradley street, 26 feet south from Veazie street.
Brastow avenue, 202 feet east from Porter street.
Brastow avenue, 115 feet west from Lowell street.
Broadway, 50 feet east from Mt. Pleasant street.
Broadway, 20 feet west from George street.
Broadway, 21 feet west from Broadway place.
Broadway, 83 feet east from Cutter street.
Broadway, 7 feet east from Glen street.
Broadway, 21 feet east from Rush street.
Broadway, 15 feet west from Cross street.
Broadway, 7 feet west from Autumn street.
Broadway, 6 feet west from Montgomery avenue.
Broadway, 33 feet west from Walnut street.
Broadway, 4 feet east from Sargent avenue.
Broadway, 3 feet west from Melvin street.
Broadway, 157 feet west from Grant street.
Broadway, 117 feet east from Marshall street.
Broadway, 62 feet west from Marshall street.
Broadway, 4 feet west from School street.
Broadway, 10 feet west from Thurston street.
Broadway, 209 feet east from Central street.
Broadway, 104 feet west from Norwood avenue.
Broadway, 288 feet east from Cedar street.
Broadway, opposite Cedar street.
Broadway, 5 feet east from Wilson avenue.
Broadway, 252 feet west from Wilson avenue.
Broadway, 115 feet west from Rogers avenue.
Broadway, 236 feet west from Liberty avenue.
Broadway, 175 feet west from College avenue.
Broadway, 6 feet west from Billingham street.
Broadway, 9 feet west from Packard avenue.
Broadway, 32 feet east from Westminster street.
Broadway, 237 feet east from Endicott avenue.
Broadway, 6 feet west from Endicott avenue.
Broadway, 9 feet west from Garrison avenue.
Broadway, 330 feet west from Waterhouse street.
Broadway park, near the pond.
Brook street, 18 feet west from Rush street.
Browning road, 302 feet west from Sycamore street.
Browning road, 136 feet east from Central street.
Buckingham street, 2 feet south from Dimick street.
Burnside avenue, 259 feet north from Elm street.
Burnside avenue, 120 feet south from Summer street.
Calvin street, 186 feet south from Beacon street.
Cambria street, 131 feet west from Central street.
Cameron avenue, 166 feet south from Holland street.
Cameron avenue, opposite Mead street.
Cameron avenue, 26 feet south from Glendale avenue.
Campbell park, 258 feet west from Meacham road.
Cedar street, 226 feet south from Sartwell avenue.
Cedar street, 98 feet north from Sartwell avenue.
Cedar street, 61 feet north from Hall street.
Cedar street, 22 feet south from Highland avenue.
Cedar street, 12 feet north from Highland avenue.
Cedar street, 10 feet north from Albion street.
Cedar street, 124 feet south from Warwick street.
Cedar street, 50 feet north from Clyde street.
Cedar street, 24 feet south from Murdock street.
Cedar street, 270 feet south from Broadway.
Central street, 50 feet south from Broadway.

Central street, 6 feet north from Forster street.
Central street, 5 feet north from Pembroke street.
Central street, 187 feet south from Vernon street.
Central street, 9 feet north from Willoughby street.
Central street, 92 feet north from Highland avenue.
Central street, 9 feet south from Highland avenue.
Central street, 6 feet north from Oxford street.
Central street, 23 feet south from Avon street.
Central street, 14 feet south from Summer street.
Chandler street, 16 feet south from Broadway.
Chandler street, 206 feet north from Park avenue.
Chapel street, 14 feet east from Chandler street.
Charles street, 183 feet south from Washington street.
Charnwood road, 79 feet west from Hancock street.
Chauncey avenue, 11 feet north from Broadway.
Chauncey avenue, 437 feet south from Mystic avenue.
Cherry street, 7 feet south from Sartwell avenue.
Cherry street, 254 feet north from Sartwell avenue.
Cherry street, 252 feet north from Summer street.
Cherry street, 26 feet south from Highland avenue.
Chester street, 15 feet north from Chester place.
Chestnut street, 480 feet south from Poplar street.
Chestnut street, 246 feet south from Poplar street.
Church street, 9 feet south from Summer street.
Church street, 300 feet south from Summer street.
Church street, 16 feet south from Somerville avenue.
Church street, 29 feet north from Somerville avenue.
Church street, 12 feet north from Lake street.
Claremon street, 255 feet south from Holland street.
Clarendon avenue, 253 feet south from Broadway.
Clarendon avenue, opposite house No. 66.
Clarendon avenue, near Cambridge line.
Clark street, 200 feet west from Newton street.
Clark street, 412 feet west from Newton street.
Cleveland street, 192 feet west from Central street.
Clyde street, 250 feet east from Cedar street.
Clyde street, opposite Murdock street.
Columbia street, 3 feet south from Beach avenue.
Columbia street, 8 feet south from Columbia court.
College avenue, 12 feet north from Winter street.
College avenue, 6 feet south from Morrison avenue.
College avenue, 8 feet south from Hall avenue.
College avenue, 53 feet west from Francesca avenue.
College avenue, opposite Kenwood street.
College avenue, 100 feet west from Broadway.
College avenue, 405 feet north from Broadway.
College avenue, 720 feet north from Broadway.
Columbus avenue, 7 feet north from Washington street.
Columbus avenue, 150 feet east from Bonner avenue.
Columbus avenue, 118 feet west from Bonner avenue.
Columbus avenue, 35 feet west from Stone avenue.
Columbus avenue, 8 feet east from Walnut street.
Concord avenue, 154 feet west from Prospect street.
Concord avenue, 76 feet east from Concord square.
Concord avenue, on east line of Knapp school.
Concord avenue, 313 feet east from Springfield street.
Concord avenue, 24 feet east from Springfield street.
Concord avenue, 7 feet east from Marion street.
Concord avenue, 6 feet south from Hammond street.
Concord avenue, 20 feet east from Wyatt street.
Conwell avenue, 20 feet west from Curtis street.

Conwell avenue, 460 feet west from Curtis street.
Conwell street, 6 feet south from Highland avenue.
Conwell street, 3 feet north from Francis street.
Cooney street, 98 feet north from Line street.
Cottage avenue, 206 feet west from Russell street.
Craigie street, 216 feet south from Summer street.
Craigie street, 232 feet north from Kimball street.
Craigie street, 77 feet south from Kimball street.
Craigie street, 126 feet north from Somerville avenue.
Crescent street, 80 feet south from Hadley place.
Crocker street, 4 feet south from Highland avenue.
Crocker street, 8 feet north from Crown street.
Cross street, 6 feet north from Pearl street.
Cross street, 32 feet north from Cross-street place.
Cross street, 62 feet north from Flint street.
Cross street, 16 feet north from Gilman street.
Cross street, 13 feet south from Auburn avenue.
Cross street, 39 feet north from Alston street.
Curtis avenue, 206 feet west from Curtis street.
Curtis street, 6 feet north from Broadway.
Curtis street, 3 feet south from Electric avenue.
Curtis street, 137 feet north from Ware street.
Curtis street, 3 feet south from Raymond avenue.
Curtis street, 34 feet south from Professors row.
Curtis street, 225 feet north from Professors row.
Cutter avenue, 11 feet south from Highland avenue.
Cutter square, 95 feet west from Cutter avenue.
Cutter street, 95 feet south from Broadway.
Cutter street, 444 feet south from Broadway.
Dane avenue, 162 feet west from Leland street.
Dane avenue, 169 feet east from Dane street.
Dane street, 9 feet north from Tyler street.
Dane street, 260 feet south from Skehan street.
Dane street, 55 feet north from Skehan street.
Dartmouth street, 184 feet south from Broadway.
Dartmouth street, 200 feet north from Evergreen avenue.
Dartmouth street, 53 feet south from Evergreen avenue.
Dartmouth street, 171 feet north from Medford street.
Davis square, 45 feet east from Day street.
Day street, 10 feet south from Davis square.
Day street, opposite Herbert street.
Day street, 195 feet south from Herbert street.
Day street, 4 feet north from Orchard street.
Dell street, 255 feet west from Glen street.
Delaware street, 246 feet east from Aldrich street.
Derby street, 400 feet east from Temple street.
Dickinson street, 20 feet east from Beacon street.
Dickinson street, 7 feet north from Leon street.
Dover street, 22 feet south from Davis square.
Dover street, 203 feet south from Davis square.
Dover street, 312 feet north from Orchard street.
Dover street, 3 feet north from Orchard street.
Durham street, opposite Skehan street.
Durham street, 5 feet west from Hanson street.
Earle street, 4 feet east from Ward street.
Eastman place, 279 feet south from Highland avenue.
Edmands street, 15 feet south from Broadway.
Ellsworth street, 7 feet west from Rush street.
Elm street, 59 feet west from Craigie street.
Elm street, 17 feet west from Porter street.
Elm street, 28 feet east from Linden avenue.

Elm street, 11 feet east from Mossland street.
Elm street, 9 feet west from Cedar street.
Elm street, 153 feet east from Cherry street.
Elm street, 110 feet west from Cherry street.
Elm street, 14 feet east from Burnside avenue.
Elm street, 104 feet east from Willow avenue.
Elm street, 20 feet east from St. James avenue.
Elm street, 9 feet west from Elston street.
Elm street, 90 feet west from Windom street.
Elm street, 25 feet west from Russell street.
Elm street, 11 feet west from Grove street.
Elm street, 82 feet west from Chester street.
Elmwood street, 9 feet south from Holland street.
Elmwood street, 300 feet east from Harrison street.
Elmwood street, 85 feet west from Harrison street.
Eliot street, 3 feet east from Park street.
Endicott avenue, 422 feet south from Broadway.
Evergreen avenue, 8 feet east from School street.
Evergreen avenue, 114 feet east from Sycamore street.
Everett avenue, 5 feet west from Cross street.
Everett avenue, 9 feet east from Dana street.
Everett avenue, 449 feet west from Cross street.
Everett street, opposite Emerson street.
Fairlee street, 134 feet west from Cherry street.
Fairmount avenue, 280 feet west from Curtis street.
Fairmount avenue, opposite Watson street.
Farm lane, 70 feet north from Sumner street.
Farm lane, 67 feet south from Roberts street.
Farragut avenue, 258 feet south from Broadway.
Farragut avenue, 537 feet south from Broadway.
Fenwick street, 40 feet north from Broadway.
Fiske avenue, 120 feet east from Hinckley street.
Fitchburg street, 395 feet east from Linwood street.
Flint street, 18 feet east from Flint avenue.
Flint street, 59 feet east from Cross street.
Flint street, 30 feet west from Franklin street.
Florence street, 206 feet south from Perkins street.
Florence street, 7 feet south from Pearl street.
Florence street, 453 feet north from Washington street.
Forster street, opposite Tennyson street.
Fosket street, 6 feet west from Bay State avenue.
Francesca avenue, 305 feet east from College avenue.
Francesca avenue, 7 feet west from Liberty avenue.
Franklin street, 14 feet north from Arlington street.
Franklin street, 55 feet north from Perkins street.
Franklin street, 76 feet south from Webster street.
Franklin street, 156 feet south from Pearl street.
Franklin street, 80 feet south from Oliver street.
Franklin street, 87 feet south from Palmer avenue.
Franklin street, 29 feet north from Washington street.
Fremont street, 82 feet north from Main street.
Fremont street, 343 feet north from Main street.
Fremont street, opposite Meacham street.
Fremont street, 287 feet north from Meacham street.
Fremont street, 25 feet north from East Albion street.
Frost avenue, 75 feet east from Sherman street.
Fountain avenue, 280 feet west from Glen street.
Garden court, 357 feet south from Somerville avenue.
Garfield avenue, 7 feet north from Broadway.
Garfield avenue, 24 feet south from Mystic avenue.
Garrison avenue, 235 feet south from Broadway.
Gibbens street, 202 feet west from Central street.

Gibbens street, 129 feet west from Benton road.
Gilman square, opposite Marshall street.
Gilman street, 103 feet east from Walnut street.
Gilman street, 143 feet east from Jasper street.
Gilman street, 8 feet west from Aldrich street.
Gilman street, 176 feet east from Aldrich street.
Gilman street, 295 feet west from Cross street.
Glass-house court, 360 feet west from Water street.
Glen street, 147 feet south from Broadway.
Glen street, 8 feet north from Brook street.
Glen street, 6 feet north from Webster street.
Glen street, 1 foot north from Flint street.
Glen street, 11 feet north from Fountain avenue.
Glendale avenue, 8 feet east from Yorktown street.
Glenwood road, 224 feet south from Broadway.
Glenwood road, 16 feet north from Vernon street.
Glenwood road, 320 feet north from Vernon street.
Glenwood road, 467 feet north from Vernon street.
Gorham street, 310 feet south from Holland street.
Gorham street, 67 feet north from Howard street.
Grand View avenue, 286 feet east from Vinal avenue.
Granite street, 178 feet north from Somerville avenue.
Grant street, 2 feet north from Derby street.
Greene street, 295 feet south from Summer street.
Greenville street, 148 feet north from Boston street.
Greenville street, 33 feet north from Munroe street.
Grove street, 163 feet south from Highland avenue.
Hall avenue, 310 feet east from College avenue.
Hall avenue, 306 feet west from Liberty avenue.
Hall avenue, 9 feet west from Liberty avenue.
Hall street, 269 feet west from Cedar street.
Hamlet street, 321 feet south from Highland avenue.
Hammond street, 30 feet west from Dickinson street.
Hancock street, 258 feet south from Summer street.
Hanson street, 12 feet south from Village street.
Hanson street, 9 feet south from Nevada avenue.
Hanson street, 6 feet south from Skehan street.
Harvard street, 13 feet north from Beech place.
Harvard street, 23 feet north from Harvard place.
Harrison street, 77 feet east from Kent street.
Harrison street (Ward 7), 4 feet east from Elmwood street.
Hathorn street, 145 feet south from Broadway.
Hawkins street, 50 feet north from Lake street.
Hawthorne street, 8 feet east from Cutter avenue.
Hawthorne street, 209 feet east from West street.
Heath street, 3 feet west from Temple street.
Heath street, 308 feet west from West street.
Heath street, 100 feet west from Bond street.
Heath street, 4 feet east from Fenwick street.
Heath street, 5 feet east from Moreland street.
Henderson street, 107 feet north from Wilton street.
Herbert street, 163 feet west from Chester street.
Highland avenue, 28 feet west from Hamlet street.
Highland avenue, 5 feet east from Walnut street.
Highland avenue, 262 feet west from Walnut street.
Highland avenue, 80 feet east from Vinal avenue.
Highland avenue, 41 feet west from Putnam street.
Highland avenue, 75 feet west from Prescott street.
Highland avenue, 114 feet west from School street.
Highland avenue, 410 feet west from School street.
Highland avenue, 112 feet west from Trull lane.
Highland avenue, 171 feet east from Central street.

Highland avenue, 214 feet east from Spring Hill terrace.
Highland avenue, 23 feet west from Spring Hill terrace.
Highland avenue, 20 feet west from Belmont street.
Highland avenue, 4 feet east from Tower street.
Highland avenue, 2 feet east from Porter street.
Highland avenue, 212 feet east from Cedar street.
Highland avenue, 63 feet east from Cherry street.
Highland avenue, 35 feet east from Hancock street.
Highland avenue, 4 feet west from Hancock street.
Highland avenue, 44 feet east from Willow avenue.
Highland avenue, 3 feet west from Willow avenue.
Highland avenue, 59 feet east from West street.
Highland avenue, 36 feet west from West street.
Highland avenue, 36 feet east from Grove street.
Highland avenue, 6 feet west from Grove street.
Highland avenue, 218 feet west from Grove street.
Highland avenue, 64 feet east from Davis square.
Highland road, 264 feet north from Morrison avenue.
Hinckley street, 106 feet south from Broadway.
Holland street, 39 feet west from Dover street.
Holland street, 8 feet west from B. & M. R. R. crossing.
Holland street, 23 feet south from Winter street.
Holland street, 5 feet east from Jay street.
Holland street, 3 feet east from Paulina street.
Holland street, 94 feet east from Claremon street.
Holyoke road, 167 feet south from Elm street.
Homer square, 200 feet west from Bonner avenue.
Houghton street, 82 feet west from Prospect street.
Houghton street, 3 feet west from Bolton street.
Houghton street, 10 feet west from Oak street.
Howard street, 36 feet west from Thorndike street.
Howe street, 162 feet east from School street.
Hudson street, 12 feet east from Waldo street.
Hudson street, opposite Benton road.
Hudson street, 294 feet east from Lowell street.
Hudson street, 362 feet west from Lowell street.
Hudson street, 675 feet west from Lowell street.
Hudson street, 364 feet east from Cedar street.
Hudson street, 24 feet east from Cedar street.
Ibbetson street, 256 feet north from Somerville avenue.
Ibbetson street, 6 feet south from Kimball street.
Irving street, 6 feet south from Broadway.
Irving street, 285 feet south from Broadway.
Irving street, 542 feet north from Holland street.
Irving street, 190 feet north from Holland street.
James street, 100 feet north from Pearl street.
Jaques street, 10 feet west from Chauncey avenue.
Jaques street, 8 feet west from Grant street.
Jaques street, 360 feet east from Temple street.
Jaques street, 185 feet west from Temple street.
Jaques street, 410 feet east from Bond street.
Jasper street, 5 feet south from Virginia street.
Jay street, 82 feet north from Howard street.
Joseph street, 100 feet west from Adrian street.
Josephine avenue, 397 feet north from Morrison avenue.
Josephine avenue, 90 feet south from Frederick avenue.
Josephine avenue, 213 feet south from Broadway.
Joy street, 34 feet south from Washington street.
Joy street, 502 feet south from Washington street.
Joy street, 271 feet north from Poplar street.
Kensington avenue, 6 feet north from Broadway.
Kent court, 205 feet west from Kent street.

Kent street, 38 feet south from Somerville avenue.
Kidder avenue, 346 feet east from College avenue.
Kingman court, 282 feet south from Washington street.
Kingston street, 95 feet west from Thorndike street.
Knowlton street, opposite Morton street.
Lake street, 220 feet west from Hawkins street.
Lake street, 4 feet east from Carlton street.
Laurel street, 50 feet north from Greene street.
Laurel street, 8 feet north from Park place.
Lawrence street, 9 feet south from Richardson street.
Leland street, 14 feet south from Dane avenue.
Lexington avenue, 3 feet west from Hancock street.
Lexington avenue, 4 feet east of Henry avenue.
Liberty avenue, 3 feet north from Kidder avenue.
Liberty avenue, 12 feet north from Mallett street.
Lincoln street, 38 feet south from Broadway.
Lincoln street, 174 feet north from Perkins street.
Lincoln avenue, 206 feet west from Mt. Vernon street.
Linden street, 31 feet north from Charlestown street.
Linden street, 237 feet south from Somerville avenue.
Linden avenue, 118 feet south from Gilson terrace.
Linden avenue, 255 feet south from Olive avenue.
Linden avenue, 30 feet north from Olive avenue.
Line street, 272 feet west from Cooney street.
Line street, 100 feet west from Smith avenue.
Linwood street, 385 feet south from Washington street.
Linwood street, 12 feet north from Linwood terrace.
Linwood street, 48 feet south from Lamson court.
Linwood street, 125 feet north from London street.
Linwood street, 52 feet south from London street.
Linwood street, 2 feet south from Linwood place.
London street, 383 feet east from Linwood street.
Loring street, 276 feet north from Somerville avenue.
Lovell street, 41 feet south from Electric avenue.
Lowell street, 1 foot north from Fiske avenue.
Lowell street, 50 feet north from Richardson street.
Lowell street, 183 feet south from Richardson street.
Lowell street, 124 feet south from Wilton street.
Lowell street, opposite Vernon street.
Lowell street, 3 feet south from Princeton street.
Lowell street, 163 feet south from Highland avenue.
Lowell street, 53 feet north from Crown street.
Lowell street, 351 feet south from Summer street.
Lowell street, 16 feet north from Kimball street.
Madison street, 103 feet west from School street.
Madison street, 467 feet west from School street.
Main street, junction with Broadway.
Main street, 112 feet west from Mt. Vernon avenue.
Main street, west corner of Moreland street.
Mansfield street, 190 feet north from Somerville avenue.
Mansfield street, 189 feet south from Washington street.
Maple avenue, 294 feet east from School street.
Maple street, 7 feet south from Jackson street.
Maple street, 87 feet north from Poplar street.
Marion street, 31 feet south from Adrian street.
Marion street, 74 feet north from Wyatt street.
Marshall street, 80 feet south from Stickney avenue.
Marshall street, 30 feet north from Stickney avenue.
Marshall street, opposite Howe street.
Marshall street, 5 feet north from Evergreen avenue.
Marshall street, 104 feet south from Mortimer place.
Marshall street, 109 feet north from Oakland avenue.

Malloy court, 16 feet south from Somerville avenue.
Meacham road, 4 feet north from Orchard street.
Meacham road, 97 feet north from Kingston street.
Meacham street, 14 feet west from Moreland street.
Mead street, 48 feet east from Claremon street.
Medford street, 50 feet north from Hennessey court.
Medford street, 56 feet north from Lowell street.
Medford street, 14 feet north from Glenwood road.
Medford street, 16 feet south from Bartlett street.
Medford street, 6 feet north from Central street.
Medford street, 19 feet south from Sycamore street.
Medford street, 15 feet south from Lee street.
Medford street, 46 feet south from Thurston street.
Medford street, 31 feet south from Dartmouth street.
Medford street, 5 feet north from School street.
Medford street, 171 feet north from Marshall street.
Medford street, 266 feet north from Walnut street.
Medford street, 17 feet south from Walnut street.
Medford street, 291 feet south from Walnut street.
Medford street, 8 feet south from Greenville street.
Medford street, 13 feet north from Prospect Hill avenue.
Medford street, 240 feet south from Prospect Hill avenue.
Medford street, opposite Chester avenue.
Medford street, 216 feet south from Washington street.
Medford street, 69 feet north from Jackson street.
Medford street, 21 feet north from Somerville avenue.
Medford street, 382 feet south from Somerville avenue.
Medford street, 220 feet north from Ward street.
Medford street, 55 feet north from Ward street.
Medford street, 91 feet south from Ward street.
Medford street, 46 feet south from South street.
Medford street, 17 feet south from Warren street.
Medford street, 220 feet south from Warren street.
Melrose street, 610 feet north from Mystic avenue.
Merriam street, 25 feet north from Charlestown street.
Miller street, 300 feet west from Sacramento street.
Miner street, 137 feet north from Vernon street.
Mondamin court, 272 feet west from Ivaloo street.
Monmouth street, 7 feet west from Central street.
Monmouth street, 156 feet east from Harvard street.
Montrose street, 10 feet east from Sycamore street.
Montrose street, 287 feet east from Sycamore street.
Montrose street, 259 feet west from School street.
Moore street, 22 feet south from Holland street.
Moore street, 335 feet south from Holland street.
Moore street, 21 feet north from Mead street.
Moreland street, 345 feet north from Meacham street.
Moreland street, 2 feet south from East Albion street.
Morgan street, 125 feet west from Park street.
Morrison avenue, 124 feet west from Cedar street.
Morrison avenue, 44 feet east from Pearson avenue.
Morrison avenue, 124 feet east from Rogers avenue.
Morrison avenue, 13 feet west from Newberne street.
Morrison avenue, 183 feet west from Clifton street.
Morrison avenue, 33 feet west from Grove street.
Mossland street, 114 feet north from Somerville avenue.
Munroe street, 203 feet east from Walnut street.
Munroe street, 6 feet west from Bigelow street.
Munroe street, 289 feet west from Boston street.
Murdock street, 204 feet east from Cedar street.
Murdock street, 610 feet east from Cedar street.
Museum street, 174 west from Beacon street.

Mt. Vernon avenue, 156 feet north from Heath street.
Mt. Vernon avenue, 38 feet south from Heath street.
Mt. Vernon street, 246 feet north from Washington street.
Mt. Vernon street, 8 feet north from Pearl street.
Mt. Vernon street, 7 feet south from Perkins street.
Mt. Vernon street, 11 feet south from Lincoln avenue.
Mt. Vernon street, 5 feet south from Broadway.
Mt. Pleasant street, 140 feet south from Broadway.
Mt. Pleasant street, 135 feet north from Perkins street.
Myrtle street, 218 feet north from Washington street.
Myrtle street, 460 feet north from Washington street.
Myrtle street, 74 feet south from Pearl street.
Myrtle street, 219 feet north from Pearl street.
Mystic avenue, 90 feet east from Union street.
Mystic avenue, 3 feet west from Union street.
Mystic avenue, 438 feet east from Austin street.
Mystic avenue, 11 feet west from Chauncey avenue.
Mystic avenue, 60 feet west from Temple street.
Mystic avenue, 800 feet east from Moreland street.
Mystic avenue, 544 feet east from Moreland street.
Mystic avenue, 241 feet east from Moreland street.
Mystic street (Ward 1), 148 feet north from Benedict street.
Mystic street (Ward 2), 160 feet south from Washington street.
Nashua street, 190 feet south from Wilton street.
Newbury street, 15 feet south from Holland street.
Newbury street, 260 feet south from Holland street.
Newbury street, 558 feet south from Holland street.
Newbury street, 777 feet south from Holland street.
Newbury street, 200 feet north from Cambridge line.
New Cross street, 114 feet north from Broadway.
Newton street, 9 feet west from Joseph street.
Newton street, 9 feet east from Clark street.
Norfolk street, 27 feet south from Webster avenue.
Norfolk street, 227 feet south from Webster avenue.
North street, 18 feet north from Broadway.
North street, 453 feet north from Raymond avenue.
North street, 190 feet north from city bound No. 17.
North Union street, 287 feet north from Mystic avenue.
Oak street, 8 feet west from Prospect street.
Oak street, 315 feet north from Houghton street.
Oakland avenue, 109 feet west from Marshall street.
Oliver street, 191 feet east from Cross street.
Oliver street, 15 feet east from Glen street.
Oliver street, 7 feet west from Franklin street.
Orchard street, 8 feet west from Russell street.
Orchard street, west corner Milton street.
Orchard street, 9 feet east from Chester street.
Otis street, 12 feet west from Cross street.
Otis street, 440 feet west from Cross street.
Otis street, 9 feet east from Dana street.
Otis street, 6 feet east from Wigglesworth street.
Oxford street, 280 feet west from School street.
Oxford street, 46 feet east from Trull lane.
Oxford street, 237 feet west from Hersey street.
Park avenue, 83 feet west from College avenue.
Park avenue, 10 feet west from Chandler street.
Park street, opposite Allen court.
Park street, 187 feet north from Beacon street.
Park street, 69 feet south from Somerville avenue.
Partridge avenue, 5 feet south from Broadway.
Partridge avenue, 26 feet north from Medford street.
Partridge avenue, 117 feet south from Medford street.

Partridge avenue, 421 feet south from Medford street.
Partridge avenue, 276 feet north from Vernon street.
Paulina street, 184 feet north from Holland street.
Paulina street, 288 feet south from Broadway.
Paulina street, 5 feet south from Broadway.
Pearl street, 50 feet west from Crescent street.
Pearl street, 7 feet north from Pinckney street.
Pearl street, 29 feet east from Franklin street.
Pearl street, opposite Hillside avenue.
Pearl street, 15 feet west from Glen street.
Pearl street, 90 feet east from Cross street.
Pearl street, 15 feet east from Delaware street.
Pearl street, 30 feet west from Dana street.
Pearl street, 1 foot west from Wigglesworth street.
Pearl street, 6 feet west from Walnut street.
Pearl street, 72 feet east from Bradley street.
Pearl street, 110 feet east from Marshall street.
Pearson road, 127 feet north from Broadway.
Pembroke street, 14 feet east from Tennyson street.
Perkins street, opposite Myrtle street.
Perkins street, 78 feet east from Florence street.
Perkins street, 24 feet east from Pinckney street.
Perkins street, 56 feet east from Perkins place.
Perkins street, 21 feet east from Mt. Pleasant street.
Perry street, 324 feet south from Washington street.
Pinckney street, 11 feet north from Washington street.
Pinckney street, 330 feet south from Pearl street.
Pinckney street, 71 feet south from Pearl street.
Pinckney street, 203 feet north from Pearl street.
Pitman street, 180 feet west from Beech street.
Pleasant avenue, 256 feet west from Walnut street.
Poplar street, 21 feet west from Joy street.
Poplar street, 22 feet east from Linwood street.
Porter street, 1 foot north from Mountain avenue.
Porter street, 282 feet south from Summer street.
Porter street, 24 feet north from Williams court.
Porter street, 8 feet north from Parker place.
Powder House boulevard, 191 feet north from Packard avenue.
Powder House boulevard, 172 feet south from Curtis street.
Powder House boulevard, 197 feet north from Curtis street.
Prescott street, 330 feet south from Highland avenue.
Prescott street, 586 feet south from Highland avenue.
Prescott street, 257 feet north from Summer street.
Preston road, 269 feet west from School street.
Preston road, 166 feet south from Summer street.
Pritchard avenue, 255 feet north from Morrison avenue.
Professors row, 39 feet east from College avenue.
Professors row, 158 feet west from Boston avenue.
Professors row, 126 feet west from College avenue.
Professors row, 291 feet west from College avenue.
Professors row, 548 feet east from Packard avenue.
Professors row, 156 feet east from Packard avenue.
Professors row, 3 feet west from Packard avenue.
Professors row, 296 feet west from Packard avenue.
Professors row, 113 feet east from Curtis street.
Prospect Hill avenue, 10 feet north from Munroe street.
Prospect street, 135 feet north from Bennett street.
Prospect street, 35 feet south from Concord avenue.
Prospect street, 185 feet south from Oak street.
Prospect street, 403 feet south from Oak street.
Prospect street, 63 feet north from Houghton street.
Putnam street, 116 feet south from Highland avenue.

Putnam street, 420 feet south from Highland avenue.
Putnam street, 612 feet north from Summer street.
Putnam street, 308 feet north from Summer street.
Quincy street, 91 feet north from Somerville avenue.
Quincy street, 381 feet north from Somerville avenue.
Quincy street, 26 feet south from Summer street.
Raymond avenue, 728 feet west from Curtis street.
Richardson street, 11 feet west from Nashua street.
Richdale avenue, opposite Thurston street.
Robinson street, 325 feet west from Central street.
Rogers avenue, 369 feet south from Broadway.
Rogers avenue, 257 feet north from Frederick avenue.
Rogers avenue, 88 feet south from Frederick avenue.
Rogers avenue, 255 feet north from Morrison avenue.
Rossmore street, 244 feet south from Washington street.
Rush street, 84 feet south from Pearl street.
Rush street, 11 feet north from Pearl street.
Rush street, 128 feet north from Brook street.
Sacramento street, 5 feet south from Miller street.
Sacramento street, 142 feet south from Beacon street.
Sanborn avenue, 55 feet east from Walnut street.
Sargent avenue, 474 feet south from Broadway.
Sargent avenue, 361 feet west from Walnut street.
Sargent avenue, 95 feet west from Walnut street.
School street, 31 feet south from Oakland avenue.
School street, 100 feet south from Maple avenue.
School street, 6 feet south from Montrose street.
School street, 128 feet north from Highland avenue.
School street, 88 feet north from Oxford street.
School street, 15 feet north from Avon street.
School street, 100 feet south from Summer street.
School street, 93 feet south from Preston road.
School street, 61 feet north from Knapp street.
Sewall street, 311 feet west from Grant street.
Shawmut street, 9 feet west from Washington street.
Shawmut street, 153 feet west from Shawmut place.
Simpson avenue, 272 feet south from Broadway.
Simpson avenue, 142 feet north from Holland street.
Skehan street, 110 feet east from Hanson street.
Somerville avenue, 188 feet west from Mossland street.
Somerville avenue, 308 feet east from Mossland street.
Somerville avenue, 600 feet east from Mossland street.
Somerville avenue, 116 feet west from Elm street.
Somerville avenue, 9 feet east from Ibbetson street.
Somerville avenue, 77 feet east from Belmont street.
Somerville avenue, 14 feet west from Garden court.
Somerville avenue, 133 feet west from Kent street.
Somerville avenue, 13 feet west from Beech street.
Somerville avenue, 11 feet east from Central street.
Somerville avenue, 15 feet west from Laurel street.
Somerville avenue, 86 feet west from Granite street.
Somerville avenue, 38 feet west from Sherman street.
Somerville avenue, 76 feet east from Hawkins street.
Somerville avenue, 185 feet west from Hawkins street.
Somerville avenue, 88 feet west from Quincy street.
Somerville avenue, 105 feet east from Carlton street.
Somerville avenue, 90 feet west from Prospect street.
Somerville avenue, 28 feet west from Linden street.
Somerville avenue, 9 feet east from Mystic street.
Somerville avenue, 94 feet west from Mansfield street.
Somerville avenue, 126 feet east from Medford street.

Somerville avenue, 88 feet east from Poplar street.
Somerville avenue, 464 feet east from Poplar street.
Somerville avenue, 153 feet west from Linwood street.
Somerville avenue, 20 feet east from F. R. R. crossing.
Somerville avenue, 368 feet west from Franklin court.
Somerville avenue, 262 feet west from Franklin court.
Somerville avenue, 23 feet east from Franklin court.
Somerville avenue, 100 feet west from Cambridge line.
South street, 97 feet west from Bedford street.
South street, 2 feet east from Harding street.
South street, 25 feet west from Hunting street.
South street, 80 feet west from Willow place.
Spencer avenue, 290 feet west from Cedar street.
Spencer avenue, 63 feet east from Hancock street.
Spring street, 10 feet south from Pitman street.
Spring street, 184 feet north from Beech street.
Springfield street, 140 feet south from Concord avenue.
Springfield street, 21 feet south from Dickinson street.
Springfield street, 177 feet south from Houghton street.
Spring Hill terrace, 333 feet south from Highland avenue.
Stickney avenue, 212 feet west from Marshall street.
Stone avenue, 120 feet north from Union square.
Stone avenue, 275 feet south from Columbus avenue.
Summer street, 148 feet east from Cutter avenue.
Summer street, opposite Elston street.
Summer street, west corner Hancock street.
Summer street, 34 feet east from Banks street.
Summer street, 6 feet east from Cherry street.
Summer street, 6 feet east from Cedar street.
Summer street, 24 feet east from Linden avenue.
Summer street, opposite Craigie street.
Summer street, 35 feet east from Porter street.
Summer street, 4 feet east from Lowell street.
Summer street, 3 feet east from Belmont street.
Summer street, 1 foot west from Spring street.
Summer street, 53 feet west from Harvard street.
Summer street, 215 feet east from Harvard street.
Summer street, 59 feet east from Central street.
Summer street, 19 feet west from Laurel street.
Summer street, 52 feet west from Preston road.
Summer street, 191 feet west from School street.
Summer street, 8 feet east from School street.
Summer street, opposite Putnam street.
Summer street, 6 feet west from Vinal avenue.
Summit avenue, 231 feet east from Vinal avenue.
Sunnyside avenue, 99 feet west from Wigglesworth street.
Sycamore street, 18 feet south from Broadway.
Sycamore street, 62 feet south from Browning road.
Sycamore street, 1 foot south from Forster street.
Sycamore street, 200 feet north from Medford street.
Sycamore street, 174 feet south from Medford street.
Sydney street, 418 feet east from Temple street.
Talbot avenue, 488 feet east from Packard avenue.
Temple street, 4 feet north from Broadway.
Temple street, 123 feet south from Sewall street.
Temple street, 11 feet north from Jaques street.
Temple street, 6 feet south from Derby street.
Temple street, 5 feet south from Sydney street.
Tenney court, 306 feet north from Mystic avenue.
Tennyson street, 4 feet south from Medford street.
Tennyson street, 117 feet north from Pembroke street.

Thorndike street, 4 feet south from Holland street.
Thorndike street, 82 feet north from Kingston street.
Thorpe place, 269 feet south from Highland avenue.
Thurston street, 187 feet north from Medford street.
Thurston street, 160 feet south from Evergreen avenue.
Thurston street, 6 feet north from Evergreen avenue.
Thurston street, 348 feet north from Evergreen avenue.
Tower street, 18 feet north from Crown street.
Tremont street, 9 feet south from Webster avenue.
Tremont street, 454 feet south from Webster avenue.
Trull street, 3 feet south from Medford street.
Trull street, 276 feet south from Medford street.
Trull street, 522 feet north from Vernon street.
Trull street, 270 feet north from Vernon street.
Tufts street, 51 feet north from Washington street.
Tufts street, 150 feet south from Glen street.
Tufts street, 43 feet north from Glen street.
Tufts street, 53 feet south from Dell street.
Tufts street, 45 feet south from Cross street.
Tyler street, 31 feet east from Vine street.
Union square, 267 feet east from Webster avenue.
Union square, 15 feet east from Stone avenue.
Union square, 3 feet west from Bow street.
Union square, centre of square.
Union street, 3 feet north from Broadway.
Union street, 123 feet south from Mystic avenue.
Veazie street, 1 foot west from James street.
Vernon street, 72 feet west from Partridge avenue.
Vernon street, 1 foot east from Bartlett street.
Vernon street, 2 feet east from Miner street.
Victoria street, 255 feet south from Broadway.
Victoria street, 506 feet south from Broadway.
Victoria street, 151 feet north from Woodstock street.
Villa avenue, 121 feet south from Winslow avenue.
Vinal avenue, 6 feet south from Highland avenue.
Vinal avenue, 10 feet north from Pleasant avenue.
Vinal avenue, 129 feet north from Aldersey street.
Vinal avenue, 206 feet north from Summer street.
Vine street, 15 feet north from Beacon street.
Vine street, opposite Eliot street.
Vine street, 121 feet south from Tyler street.
Vine street, 32 feet south from Somerville avenue.
Virginia street, 45 feet west from Aldrich street.
Waldo street, 6 feet north from Highland avenue.
Wallace street, 37 feet south from Broadway.
Wallace street, 395 feet south from Broadway.
Wallace street, 483 feet north from Park avenue.
Wallace street, 166 feet north from Park avenue.
Wallace street, 10 feet north from Holland street.
Walnut street, 88 feet south from Wellington avenue.
Walnut street, opposite Veazie street.
Walnut street, 87 feet north from Gilman street.
Walnut street, 31 feet north from Pleasant avenue.
Walnut street, 12 feet south from Boston street.
Walter street, 28 feet west from Walnut street.
Walter street, 50 feet west from Bradley street.
Ward street, 104 feet west from Medford street.
Ward street, 3 feet east from Emery street.
Ware street, 258 feet west from Curtis street.
Ware street, 638 feet west from Curtis street.
Warner street, 60 feet north from Broadway.

Warren avenue, 5 feet north from Sanborn avenue.
Warren avenue, 48 feet north from Bow street.
Warren avenue, 7 feet south from Columbus avenue.
Warwick street, 426 feet east from Cedar street.
Washington street, 69 feet west from Crescent street.
Washington street, 3 feet west from Waverley street.
Washington street, west corner Mt. Vernon street.
Washington street, 3 feet west from Murray street.
Washington street, 2 feet east from Bartlett street.
Washington street, 6 feet west from Florence street.
Washington street, 15 feet west from Myrtle street.
Washington street, 18 feet east from Franklin avenue.
Washington street, 160 feet east from Franklin street.
Washington street, 50 feet east from Shawmut street.
Washington street, 37 feet east from Rossmore street.
Washington street, 78 feet east from Boston street.
Washington street, 28 feet west from Mystic street.
Washington street, 6 feet west from Clark place.
Washington street, 156 feet west from Bonner avenue.
Washington street, 6 feet east from Kingman court.
Washington street, 243 feet east from Parker street.
Washington street, 50 feet east from Bowdoin street.
Washington street, 9 feet east from Leland street.
Washington street, 112 feet east from Dane street.
Washington street, 175 feet west from Dane street.
Washington street, 45 feet east from Beacon street.
Washington street, 62 feet east from Line street.
Water street, 91 feet north from South street.
Water street, 254 feet north from South street.
Water street, 354 feet north from South street.
Waterhouse street, 24 feet south from Broadway.
Waterhouse street, 326 feet south from Broadway.
Waterhouse street, 630 feet south from Broadway.
Webster avenue, 93 feet south from Washington street.
Webster avenue, 12 feet south from Everett street.
Webster avenue, 25 feet north from Newton street.
Webster avenue, 63 feet north from Prospect street.
Webster avenue, 18 feet south from Prospect street.
Webster avenue, 78 feet north from Tremont street.
Webster avenue, 3 feet north from Beach avenue.
Webster avenue, 1 foot south from Columbia court.
Webster street, 25 feet east from Cross street.
Webster street, 9 feet east from Rush street.
Webster street, opposite Cutter street.
Wellington avenue, 15 feet west from Montgomery avenue.
Wesley street, 200 feet north from Pearl street.
Wesley park, 16 feet north from Bow street.
Wesley park, 335 feet north from Bow street.
West street, 2 feet north from Broadway.
West street (Ward 7), 92 feet south from Highland avenue.
West street (Ward 7), 140 feet north from Highland avenue.
Westminster street, 156 feet south from Electric avenue.
Westwood road, 90 feet west from Central street.
Westwood road, 58 feet east from Benton road.
Wheatland street, 129 feet north from Broadway.
Wheatland street, 9 feet south from Jaques street.
Wheatland street, 78 feet south from Mystic avenue.
Whipple street, 101 feet north from Highland avenue.
William street, 8 feet east from Chandler street.
Willoughby street, 146 feet west from Sycamore street.
Willow avenue, 14 feet north from Summer street.

Willow avenue, 3 feet north from Lexington avenue.
 Willow avenue, 46 feet south from Morrison avenue.
 Willow avenue, 42 feet south from Fosket street.
 Willow avenue, opposite Mallett street.
 Wilton street, 6 feet east from Nashua street.
 Wilton street, 10 feet east from Lawrence street.
 Windom street, 7 feet south from Summer street.
 Windsor road, 86 feet east from Willow avenue.
 Windsor road, 45 feet west from Hancock street.
 Winslow avenue, 145 feet east from College avenue.
 Winslow avenue, 5 feet west from Grove street.
 Winslow avenue, 8 feet west from Clifton street.
 Winter street, 130 feet east from Holland street.
 Winter-hill circle, 178 feet north from Broadway.
 Winthrop avenue, 7 feet north from Broadway.
 Woodbine street, 222 feet west from Centre street.
 Wyatt street, 8 feet south from Taunton street.

List of Private Hydrants Supplied from the City of Somerville Mains.

John P. Squire & Co.	8
North Packing and Provision Co.	10
New England Dressed Meat and Wool Co.	5
Boston & Maine Railroad	7
Union Glass Works	1
Fresh Pond Ice Co.	1
American Tube Works	1
Middlesex Bleachery	3
Boston Elevated Railway Co.	1
Metropolitan Sewerage Pumping Station	1
Tufts College	4
Middlesex Paper Co.	2
Derby Desk Co.	1

Gates—Construction Account.

New gates have been set in the following locations:—

Albion street, 8-inch gate, 13 feet 4 inches out from north line, on west line of Centre street.
 Albion street, 6-inch gate, 11 feet east from west line of building No. 110, and 10 feet out from north line of Albion street; for blow-off.
 Central street, 6-inch gate, 19 feet out from east line, and 14 feet south from north line of Berkeley street; for blow-off.
 Curtis street, 2-inch gate, 4 feet 6 inches out from waterpost located 50 feet east from Professors row.
 Day street, 6-inch gate, 8 feet south from north line of Orchard street, and 17 feet east from west line of Day street; for blow-off.
 Elm street, 12-inch gate, 17 feet 6 inches out from east line, and 10 feet south from south line of Willow avenue.
 Elm street, 6-inch gate, 9 feet out from east line, and 22 feet north from south line of Willow avenue; for blow-off.
 Emery street, 6-inch gate, 9 feet out from east line, on south line of Ward street.
 Franklin street, 12-inch gate, 16 feet out from east line, on south line of Perkins street.
 Franklin street, 6-inch gate, 18 feet out from east line, and 88 feet 6 inches south from south line of Broadway; for blow-off.

- Fremont street, 6-inch gate, 13 feet out from north line, on east line of Main street.
- Horace street, 6-inch gate, 10 feet out from east line, on south line of Ward street.
- Howard street, 6-inch gate, 3 feet 8 inches out from north line, on west line of Thorndike street.
- Hudson street, 6-inch gate, 10 feet out from north line, and 2 feet west from west line of building No. 135.
- Hudson street, 4-inch gate, 13 feet out from north line, and 9 feet west from west line of building No. 143-A; for blow-off.
- James street, 6-inch gate, 13 feet out from east line, on north line of Pearl street.
- Lexington avenue, 6-inch gate, 11 feet 6 inches out from south line, on east line of Hancock street.
- Lexington avenue, 6-inch gate, 11 feet 6 inches out from south line, and 31 feet east from east line of Hancock street.
- Lexington avenue, 6-inch gate, 13 feet 4 inches out from south line, on west line of Cedar street.
- Lowden avenue, 8-inch gate, 13 feet 4 inches out from east line, on north line of Fosket street.
- Lowden avenue, 8-inch gate, 13 feet 4 inches out from east line, on south line of Kidder avenue.
- Lowell street, 12-inch gate, 13 feet 4 inches out from west line, and 6 feet north from north line of building No. 320.
- Lowell street, 12-inch gate, 13 feet 4 inches out from west line, and 3 feet north from north line of Vernon street.
- Lowell street, 4-inch gate, 16 feet out from west line, and 10 feet north from south line of Vernon street; for blow-off.
- Malvern avenue, 6-inch gate, 13 feet 4 inches out from north line, on east line of Yorktown street.
- Malvern avenue, 6-inch gate, 13 feet 4 inches out from north line, on west line of Cameron avenue.
- Medford street, 12-inch gate, 18 feet out from south line, and 22 feet west from west line of Central street.
- Packard avenue, 10-inch gate, 15 feet 6 inches out from east line, on south line of Talbot avenue.
- Packard avenue, 10-inch gate, 20 feet out from east line, on north line of Powder House boulevard.
- Pearl street, 6-inch gate, 15 feet out from north line, and 57 feet east from east line of Walnut street.
- Poplar street, 6-inch gate, 15 feet out from north line, and 8 feet east from west line of Maple street; for blow-off.
- Powder House boulevard, 12-inch gate, 17 feet out from north line, on west line of Curtis street.
- School street, 10-inch gate, 16 feet 8 inches out from west line, on south line of Medford street.
- School street, 4-inch gate, 3 feet out from west line, and 46 feet north from north line of building No. 160; for blow-off.
- School street, 10-inch gate, 16 feet 8 inches out from west line, and 22 feet north from north line of building No. 160.
- Teele avenue, 6-inch gate, 13 feet 4 inches out from north line, on east line of Curtis street.
- Teele avenue, 6-inch gate, 13 feet 4 inches out from north line, on west line of Packard avenue.

Gates—Renewal Account.

The following changes have been made in the size and location of main gates:—

- Albion street, 8-inch gate, set 13 feet 4 inches out from north line, on west line of Central street, and 6-inch gate removed from same location.
- Albion street, 6-inch gate, removed from 16 feet out from north line, on west line of Central street.
- Franklin street, 12-inch gate, set 16 feet out from east line, on south line of Broadway, and 8-inch gate removed from same location.
- Franklin street, 2-inch gate, set 4 feet out from waterpost located 127 feet south from Broadway, and 2-inch gate removed from old waterpost location on Broadway, 42 feet east from Franklin street.
- Gilman street, 2-inch gate, set 3 feet out from waterpost located 63 feet south from Walnut street, and 2-inch gate removed from old waterpost location 69 feet south from Walnut street.
- Melvin street, 6-inch gate, set 13 feet out from east line, on north line of Bonair street, and 4-inch gate removed from same location.
- Pearl street, 12-inch gate, set 15 feet out from north line, and 22 feet east from east line of Walnut street, and 12-inch gate removed from 15 feet out from north line, and 16 feet east from east line of Walnut street.
- Perkins street, 8-inch gate, set 16 feet out from south line, on east line of Franklin street, and 6-inch gate removed from same location.
- School street, 6-inch gate, set 17 feet out from south line, on west line of Medford street, and 6-inch gate, 19 feet out from south line and 20 feet west from east line of Medford street, on old connection with 30-inch Metropolitan Water Works pipe, was closed and abandoned.
- Sycamore street, 2-inch gate, set 3 feet out from waterpost located 28 feet west from Medford street, and 2-inch gate removed from old waterpost location on Medford street, 45 feet south from Sycamore street.
- Thorndike street, 3-inch gate, set 14 feet out from east side, and 3 feet north from north line Boston & Maine railroad location, and 6-inch gate removed from 14 feet out from east side, on north line of Boston & Maine railroad location.

GATES — RECAPITULATION.

GATES.	1½"	2"	3"	4"	6"	8"	10"	12"	Total.
Set	—	4	—	3	23	5	4	8	47
Removed	—	3	—	1	5	1	—	1	11

Net increase in number of gates in 1902 36
 Total number of gates in the city January 1, 1904 . . . 1,319

Locations of Water Posts.

- Adams street, 57 feet south from Broadway.
- Albion street, 83 feet west from Centre street.
- Appleton street, 49 feet west from Willow avenue.
- Beacon street, 33 feet north from Concord avenue.
- Beacon street, 33 feet west from Vine street.
- Beacon street, 94 feet east from Sacramento street.
- Bonair street, 19 feet west from Wigglesworth street.
- Bond street, 14 feet north from Broadway.
- Boston street, 107 feet west from Greenville street.
- Broadway, 75 feet west from Winthrop avenue.
- Broadway, 6 feet west from Farm lane.

Broadway, 6 feet west from Irving street.
Broadway, 120 feet west from Clarendon avenue.
Broadway, 20 feet west from North street.
Cedar street, 96 feet south from Morrison avenue.
Cherry street, 161 feet south from Fairlee street.
College avenue, opposite Morrison avenue.
College avenue, 5 feet south from Kenwood street.
Columbus avenue, 54 feet east from Walnut street.
Concord avenue, opposite Knapp school.
Curtis street, 50 feet east from Professors row.
Dana street, 30 feet east from Pearl street.
Elm street, 25 feet west from Burnside avenue.
Flint street, 47 feet east from Cross street.
Franklin street, 127 feet south from Broadway.
Gilman street, 63 feet east from Walnut street.
Grove street, 19 feet south from Highland avenue.
Highland avenue, 44 feet west from Hamlet street.
Highland avenue, 50 feet west from Putnam street.
Highland avenue, 15 feet west from Central street.
Holland street, 30 feet west from Elmwood street.
Jaques street, 159 feet west from Grant street.
Laurel street, 20 feet south from Summer street.
Liberty avenue, 46 feet south from Broadway.
Linwood street, 70 feet west from Poplar street.
Lowell street, 34 feet north from Highland avenue.
Medford street, 35 feet east from Ward street.
Medford street, at Gilman square.
Medford street, 19 feet east from Jenny Lind avenue.
Montrose street, 204 feet west from School street.
Mt. Vernon street, 71 feet south from Broadway.
Mystic avenue, 33 feet west from Union street.
Orchard street, 107 feet west from Dover street.
Otis street, 127 feet west from Cross street.
Pearl street, 28 feet east from Myrtle street.
Pleasant avenue, 104 feet west from Walnut street.
Putnam street, 96 feet north from Summer street.
School street, 116 feet south from Broadway.
School street, 50 feet north from Berkeley street.
Somerville avenue, 175 feet east from Fitchburg R. R. crossing.
Somerville avenue, 246 feet east from Poplar street.
Somerville avenue, 89 feet east from Mystic street.
Somerville avenue, 119 feet west from School street.
Somerville avenue, 92 feet west from Kent street.
Somerville avenue, 120 feet west from Oak square.
Somerville avenue, 42 feet east from Mossland street.
Summer street, 14 feet east from Belmont street.
Summer street, 32 feet east from Cedar street.
Summer street, 35 feet east from Cutter avenue.
Sycamore street, 28 feet west from Medford street.
Temple street, 124 feet south from Heath street.
Tufts street, 114 feet east from Cross street.
Vernon street, 45 feet west from Central street.
Washington street, 96 feet west from Myrtle street.
Washington street, 7 feet west from Boston street.
Washington street, 34 feet west from Union square.
Washington street, opposite Leland street.
Wheatland street, 30 feet south from Mystic avenue.
Webster avenue, 68 feet north from Tremont street.

Locations of Drinking Fountains.

Belmont park	D
Broadway, opposite park, near Winthrop avenue .	H
Franklin park	D
Union square, junction Somerville avenue and Washington street	H
Union square, in front of Hill building	D I
Lincoln park	D
Gilman square	H
Gilman square	D I
Cutter square	C
Davis square, in front of Medina building . .	D I
Teele square	H

H, horse trough; D, drinking fountain; I, ice water; C, combination trough and drinking fountain.

Summary of Statistics

FOR THE YEAR ENDING DECEMBER 31, 1903.

In form recommended by the New England Water Works Association.

SOMERVILLE WATER WORKS.

SOMERVILLE, MIDDLESEX COUNTY, MASS.

GENERAL STATISTICS.

Population by census of 1900, 61,643.

Date of construction: commenced in 1868.

By whom owned: City of Somerville.

Source of supply: Metropolitan water system.

Mode of supply: water is delivered into the city's mains, under both high and low pressures, by the Metropolitan Water Works.

STATISTICS OF CONSUMPTION OF WATER.

1. Estimated total population at date, 68,000.
2. Estimated population on lines of pipe, 68,000.
3. Estimated population supplied, 68,000.
4. Total consumption for the year, estimated for first six months and measured the last six months, 2,120,650,000 gallons.
5. Passed through meters, 426,055,257 gallons.
6. Percentage of consumption metered, 20.1.
7. Average daily consumption, 5,810,000 (estimated).
8. Gallons per day to each inhabitant, 85.

STATISTICS RELATING TO DISTRIBUTION SYSTEM.**MAINS.**

1. Kind of pipe, cast-iron.
2. Sizes, from 4-inch to 20-inch.
3. Extended 3,280 feet during year.
5. Total now in use, 88.4 miles.
6. Cost of repairs per mile, \$3.79.
7. Number of leaks per mile, .09.
9. Number of hydrants added during year (public and private), 19.
10. Number of hydrants (public and private) now in use, 1,018.
11. Number of stop gates added during year, 36.
12. Number of stop gates now in use, 1,319.
14. Number of blow-offs, 132.
15. Range of pressure on mains, 35 pounds to 100 pounds.

SERVICES.

16. Kind of pipe: Lead; wrought iron—lead-lined; wrought iron—cement-lined.
17. Sizes, one-half to six inches.
18. Extended, 5,529 feet.
20. Total now in use, 69.26 miles.
21. Number of service taps added during year, 144.
22. Number now in use, 10,854.
24. Average cost of service for the year, \$19.10.
25. Number of meters added, 369.
26. Number now in use, 638.
27. Percentage of services metered, 5.87.
28. Percentage of receipts from metered water, 27.3.
29. Number of motors and elevators added, 0.
30. Number now in use, 9.

FINANCIAL STATISTICS.

RECEIPTS.		EXPENDITURES.	
From Water Rates:—		Water Works Maintenance:—	
A. Fixture rates	\$163,170 84	AA. Operation (management and repairs)	\$26,360 17
B. Meter rates	61,164 59	BB. Special:—	
C. Total from consumers	\$224,335 43	Renewal of street mains	13,018 14
M. From other sources:—		Miscellaneous accounts	1,842 46
Metropolitan Water Works		CC. Total maintenance	\$41,220 77
Water service assessments	\$1,279 93	DD. Interest on bonds	5,610 00
Costs for non-payment	2,527 28	EE. Payment of bonds	23,000 00
Labor and materials sold	302 00		
	1,952 39	Water Works Construction:—	
		GG. Extension of mains	\$6,006 80
		HH. Extension of services	2,750 95
		II. Extension of meters	5,299 53
		JJ. Miscellaneous accounts	109 93
		KK. Total construction	\$14,167 21
		LL. Unclassified expenses:—	
		Metropolitan water assessment	77,288 43
		Refunds to consumers	1,137 84
		MM. Balance:—	
		(aa) Ordinary	67,972 78
		Total balance	\$67,972 78
N. Total	\$230,397 03	N. Total	\$230,397 03

Disposition of balance: applied to other municipal purposes.

O. Cost of works to date	\$815,997 35
P. Bonded debt at date	123,000 00
R. Average rate of interest, 4 per cent.	



THE S. ARMSTRONG CO., COOPERAGE WORKS, SOMERVILLE AVENUE.



H. M. HILLSON & CO., OIL AND GAS STOVE WORKS, TAYLOR STREET,
NEAR MYSTIC AVENUE.

REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT.

OFFICE OF CHIEF ENGINEER OF FIRE DEPARTMENT. }
December 31, 1903. }

To His Honor, the Mayor, and the Board of Aldermen:—

I herewith present the annual report of the fire department for the year ending December 31, 1903.

Fires.

Number of bell alarms	196
Number of still alarms	99
Total alarms	295
Value of buildings at risk	\$330,550 00
Damage to buildings	32,891 00
Insurance on buildings	247,600 00
Value of contents	124,250 00
Damage to contents	21,289 23
Insurance on contents	78,525 00
Total value	454,800 00
Total damage	54,180 23
Total insurance	326,125 00

The work of the department during the past year has been successfully performed, having won expressions of commendation and gratitude from the chief executive of our city, as well as from the owners of the property at risk.

In only six cases was a second alarm necessary to call out additional apparatus. No better evidence of the efficiency of the department can be shown than the limited number of second alarms and the number of fires extinguished without serious damage.

In March, the efficiency of the officers and other members of the department was put to a test unlike any known in its previous history. A fire alarm brought men and apparatus to the furniture factory of Brown & Symonds, on Mystic avenue. The situation was such that a second alarm became necessary. The fire was well under way, the entire first story being in flames, when the discovery was made that the Hillson tin-factory, a short distance away, was on fire, the flames bursting from the second story on both sides of the building. The fire apparatus that was due at the scene of the first fire on the sounding of the second alarm had been sent to the Hillson factory, when word was received that the carriage factory of Welsh, Dwyer & Grady, on Mystic avenue, was also on fire. Assistance was asked from Bos-

ton and Cambridge, and through the combined efforts of the three departments the principal part of the works of all three of these large business industries was saved. The fires were all of incendiary origin.

Causes of Bell Fire Alarms.

Boiling over of tar kettle	1
Bonfires	1
Breaking of kerosene lamp	9
Burning of rubbish	8
Children playing with matches	14
Chimney fire	3
Cigar dropped on awning	1
Cigar dropped in wooden cuspidor	3
Clothing in contact with lamp	1
Clothing near stove	1
Curtain in contact with gas jet	1
Defective chimney flue	5
Electric wires	1
Explosion	3
False alarm	12
Fire crackers	5
Fire in Charlestown	1
Fire in Medford	2
Fumigating	1
Gas stove in contact with curtains	1
Gas stove overheated	4
Grass fire	5
Hot ashes in wood receptacle	7
Igniting of Christmas tree from candle	1
Incendiary	12
Melting wax on stove	2
Overheated coal stove	2
Overheated furnace	1
Overheated incubator	2
Overheated oil stove	13
Plumber's torch	1
Rats and matches	1
Smoke mistaken for fire	5
Spark from chimney on roof	11
Spark from fire-box under boiler	2
Spark from forge	1
Spark from machinery	2
Spark from railroad engine	10
Spark from snap-match	4
Spark from tobacco	5
Spontaneous combustion	8
Steam mistaken for fire	2
Thawing water pipes	4
Unknown	16
Wood near stove	1
Total alarms	196

Manual Force.

The manual force of the department consists of 113 members,—34 permanent men, and 79 callmen, distributed as follows:—



STOREHOUSE OF MIDDLESEX PAPER COMPANY, WATER STREET.

	Perma- nent.	Call.	Total.
Chief engineer	1		1
Assistant engineer	1		1
One engine company	4	9	13
One engine company	5	8	13
One engine company	5	9	14
One chemical company	3		3
One chemical engine and hose company	3	5	8
One chemical engine and hose company	3	4	7
Two hose companies, each	2	8	20
One hose company	1	7	8
One hook and ladder company	2	12	14
One hook and ladder company	2	9	11
Total force			113

Equipment.

The apparatus is, generally speaking, in good working order. A new engine has been bought, and is now in service at the central station. Repairs have been made on engines 1 and 4, and they are now in fair condition.

A new building is in process of erection in Union square, on land bounded by Washington and Prospect streets and Somerville avenue. It will replace the old station of ladder one and hose three, which has become thoroughly dilapidated. The new structure, when completed, will be most attractive in appearance, and will furnish ample accommodations for the apparatus necessary for the proper protection of the district.

There is great need of a combination wagon for carrying ladders and chemical tanks, at the station of engine two at the corner of Broadway and Cross street. The nearest ladder truck is at Union square; a location too remote to insure quick service, so important during the first stages of a fire. Such a piece of apparatus could be conveniently housed in the station above-named, and would be of immeasurable value in the district bounded by Charlestown Neck, Winter Hill, Mystic river, and Pearl street.

Four old horses have been replaced by new ones.

The total number of horses is apportioned as follows:—

Engine 1	3 horses.
Engine 1 hose wagon	2 "
Engine 2	3 "
Engine 2 hose wagon	2 "
Engine 4	3 "
Engine 4 hose wagon	2 "
Hose 2	2 "
Hose 3	2 "
Hose 5	2 "
Hose 6 (Combination Hose and Chemical)	3 "
Hose 7 (Combination Hose and Chemical)	2 "
Chemical A	2 "

Ladder 1	3 horses.
Ladder 2	3 "
Chief of Department	1 "
Assistant chief	1 "
Spare	1 "
Electrical Department	2 "
<hr/>	
Total	39

Test of New Engine.

A new steam fire engine, to be known as engine number three, was built for the city in the fall of 1903 by the American Fire Engine company.

An exhibition test of this engine was given on Broadway park on the afternoon of October 21, a report of which was made by Engineman Cook, of engine number two, as follows:—

Time of lighting fire,	2.32 P. M.
with one gauge of cold water,—	
3 minutes,	7 pounds steam;
4½ minutes,	20 pounds steam;
6½ minutes, started engine,	40 pounds steam.

Time of starting engine,	2.38½ P. M.
Large safety valve set 135 pounds, small 130 pounds.	
Generated 135 pounds steam in 8½ minutes.	

No. 1 test—One line hose, 200 feet, 2½-inch,
Size of nozzle, 1½-inch.
Steam, 135 pounds. Water, 250 pounds.

No. 2 test—One line hose, 200 feet,
Siamesed, two lines, 200 feet each.
Size of nozzles, two 1-inch.
Steam, 130 pounds. Water, 230 pounds.

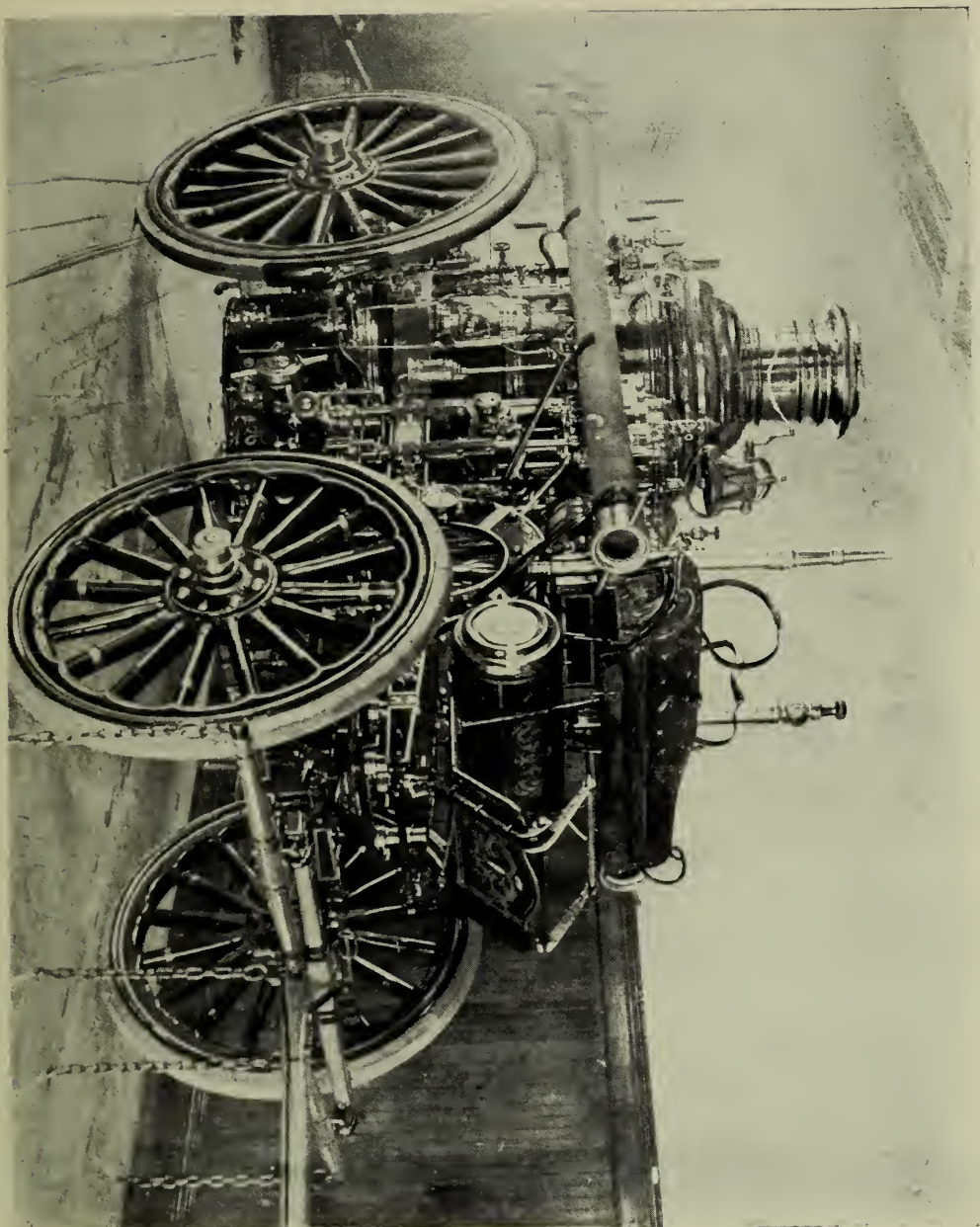
No. 3 test—Two lines hose, 100 feet each,
Siamesed, four lines, 50 feet each.
Size of nozzles, ¾-inch each.
Steam, 135 pounds. Water, 240 pounds.

No. 4 test—Two lines hose, 100 feet each, pipe connected to siamese direct.
First part of this test used 1½-inch nozzle,
Second part of this test used 1¼-inch nozzle.
Steam, 140 pounds. Water, 270 pounds.
135 pounds. 260 pounds.

No. 5 test—One line hose, 100 feet.
Size of nozzle, 1½-inch.
Steam, 140 pounds. Water, 265 pounds.

CLARENCE V. COOK,
Engineman, Engine No. 2.

To James R. Hopkins,
Chief Engineer Fire Department.



STEAM FIRE ENGINE ("METROPOLITAN") NO. 3. PURCHASED IN 1903.

Don'ts.**Suggestions for the Prevention of Fires.**

1. Don't place gas or other light where a blown curtain can reach it.
 2. Don't go to bed and leave a kerosene lamp burning.
 3. Don't use a light when you look for escaping gas in the cellar.
 4. Don't leave matches about except in metal or earthen boxes.
 5. Don't use snap matches.
 6. Don't keep matches where rats or mice can get at them.
 7. Don't place ashes in wooden receptacles.
 8. Don't neglect to watch gas and oil stoves when in use.
 9. Don't leave a room where fat is boiling.
 10. Don't use an open grate without a screen.
 11. Don't use kerosene to kindle fires.
 12. Don't allow flues to become defective.
 13. Don't leave oily rags,—animal, or vegetable,—about.
 14. Don't neglect to ascertain immediately the cause of unusual smoke or smell of smoke. If it indicates fire telephone to a fire station.
 15. Don't forget the location of the nearest fire-alarm box, and where the key is kept.
 16. Don't delay sending in an alarm when you discover a fire.
 17. Don't hesitate to send in an alarm or telephone to a fire station if you cannot find the cause of unusual smoke in your building.
 18. Don't use a receptacle filled with sawdust for a cuspidor.
 19. Don't be without means for extinguishing small fires at any time.
 20. Don't invite fires by neglecting to guard against and to be prepared for them.
- Eternal vigilance is the price of freedom from fires.

In Memoriam.

The following members of the department have died during the year:—

Charles H. Stearns, born December 7, 1854; died January 23, 1903.

Daniel W. McDermott, born March 14, 1846; died March 29, 1903.

George F. Hughes, born October 6, 1852; died April 14, 1903.

Caleb W. Kimball, born July 16, 1874; died November 17, 1903.

Harry W. Elwell, born April 21, 1868; died October 7, 1903.

Thomas H. Daley, born April 3, 1845; died December 10, 1903.

William A. Burbank, born March 6, 1842; died December 30, 1903.

These men were good citizens and good firemen. We record them as dead; yet they are not wholly dead to their companions, much less to those who were nearer and dearer to them. They remain with us in memory; we recall the hours when we labored together, the social hour, and their descriptive scenes of active service as firemen.

“Their memories brighten o’er the past,
As when the sun, concealed behind some cloud that near us hangs,
Shines on a distant field.”

Recommendations.

I desire to renew the recommendation which I have repeatedly made in former years, that the city ordinance concerning the construction of buildings be so amended as to prohibit shingled roofs. The safety of our city also demands that the outer walls of buildings covering an area of over 4,000 feet and more than one story in height should be of stone, brick, or iron, and the roof protected with some non-inflammable material. When roofs are dry sparks from a small fire may kindle twenty other fires, and if a strong wind is blowing, the city may be placed in great peril.

In rendering this report, it is fitting that thanks be extended to his honor, the mayor, the board of aldermen, and all others who have assisted in furthering the work of the department, and contributing to its success. To the members of the fire department, also, my thanks are due for their uniformly efficient service and cheerful co-operation.

Fire Department Account.

CREDIT.	
Appropriation	\$66,000 00
Receipts:—	
Electrical Department, board of horses	300 00
William L. Lockhart & Co., old hose	13 50
	<hr/>
Total credit	\$66,313 50
DEBIT.	
Expenditures:—	
Salaries of permanent men and substitute drivers	\$38,704 66
Salaries of call men	14,148 15
Improvements and repairs of apparatus and vehicles	2,125 16
Hose and repairing same	1,174 30
Horses	1,496 27
Washing and ironing	453 58
Harnesses and repairing same	413 20
Ice	99 94
Fire extinguishers	129 19
Horse medicine and doctoring	165 20
Telephones	159 77
Supplies	850 37
Hay and straw	2,978 44
Grain and feed	1,630 03
Horseshoeing	1,001 79
Incidentals	630 62
	<hr/>
Total debit	\$66,160 67
Balance unexpended	<hr/> \$152 83 <hr/>

Fire Department, New Steam Fire Engine Account.

CREDIT.	
Appropriation	\$5,375 00
DEBIT.	
American Steam Fire Engine Co., one new steam fire engine	<hr/> \$5,375 00 <hr/>

Service of Companies in Fire Department, Year 1903.

	Engine 1.	Engine 2.	Engine 4.	Hose 2.	Hose 3.	Hose 5.	Hose and Chemical 6.	Hose and Chemical 7.	Chemical A.	Hook and Ladder 1.	Hook and Ladder 2.	Totals.
Bell alarms responded to . . .	134	84	193	196	102	92	50	81	128	114	90	1,204
Still alarms responded to . . .	7	18	9	21	11	27	4	12	20	15	3	147
Miles traveled . . .	253	144	128	181	180	188	117	145	288½	116	151½	1,892
Feet of hydrant hose used . . .	13,300	9,650	9,750	10,500	13,950	13,050	2,300	6,150	. .	. .	. .	78,650
Feet of Chemical hose used . . .	. .	. .	. .	. .	. .	. .	2,600	8,550	27,000	. .	. .	38,150
Feet of ladders used . . .	80	100	50	250	40	420	25	72	235	3,102	3,026	7,400
Chemical extinguishers used . . .	10	15	9	7	29	58	. .	12	. .	21	7	168
Gallons of chemical water used . . .	. .	. .	. .	. .	. .	. .	630	1,200	5,350	. .	. .	7,180
Times on duty at other stations . . .	. .	. .	. .	. .	. .	2	7	4	. .	. .	. .	13

Roster of Department.

James R. Hopkins	Chief Engineer	27 Summit ave.
Nathaniel C. Barker	Assistant Engineer	265 Highland ave.

ENGINE COMPANY NO. 1.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Edward W. Ring,	May 6, 1847,	Captain,	Fireman,	Medford st.
Frank Langer,	July 4, 1854,	Lieutenant,	Wood Moulder,	Trull lane.
John W. Bartlett,	Feb. 22, 1862,	Engineman,	Fireman,	Hudson st.
Harry J. Locke,	April 25, 1871,	Driver,	Fireman,	Boston st.
Lyle Sterling,	Feb. 28, 1867,	Driver,	Fireman,	Somerville ave.
Fred S. Young,	Feb. 1, 1867,	Hoseman,	On water works,	Oxford st.
Oscar J. Lingley,	April 5, 1860,	Hoseman,	Milkman,	Avon st.
Benjamin F. Johnson,	Nov. 20, 1864,	Hoseman,	R. R. Yard Man,	Medford st.
Sewall M. Rich,	Nov. 6, 1866,	Hoseman,	Merchant,	Medford st.
Joseph W. Mess,	Sept. 25, 1863,	Hoseman,	Pedler,	Chester ave.
Melvin F. Underwood,	Nov. 28, 1873,	Hoseman,	Electrician,	Highland ave.
Frank R. Rametti,	Dec. 26, 1873,	Hoseman,	Lineman,	Pearl st.
Everett W. Bray,	Feb. 17, 1872,	Hoseman,	Prov. Clerk,	Medford st.

ENGINE COMPANY NO. 2.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Benjamin H. Pond,	Oct. 25, 1867,	Captain,	Fireman,	Columbus ave.
Clarence V. Cook,	Oct. 1, 1858,	Engineman,	Fireman,	Arthur st.
Walter H. Young,	Dec. 25, 1869,	Asst. Engineman,	Fireman,	Fountain ave.
Lewis E. Seymour,	March 25, 1873,	{ Lieutenant, Driver,	Fireman,	Cross st.
Charles Spike,	Feb. 8, 1875,	Driver,	Fireman,	Grant st.
Robert Geaton,	Feb. 22, 1861,	Hoseman,	Painter,	Webster st.
Charles T. Garland,	Nov. 15, 1871,	Hoseman,	Coal Dealer,	Broadway.
Edward W. Burgess,	Aug. 3, 1859,	Hoseman,	Vegetable Dealer,	Otis st.
Cornelius A. Doherty,	April 30, 1873,	Hoseman,	Milk Dealer,	Cross st.
Frederick W. Kimball,	Aug. 11, 1866,	Hoseman,	Woodworker,	Brook st.
George H. Crosby,	Sept. 14, 1881,	Hoseman,	Teamster,	Broadway.
Thomas E. Nagle,	Nov. 7, 1869,	Hoseman,	Milk Striker,	Oliver st.
Percival L. Lowell,	July 1, 1877,	Hoseman,	Laborer,	Marshall st.

ENGINE COMPANY NO. 4.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
John Gillooly,	June 9, 1856,	Captain,	Fireman,	Winslow ave.
Danforth S. Steele,	Sept. 9, 1850,	Lieutenant,	Foreman,	Leslie pl.
Lindorf D. Bixby,	Jan. 31, 1841,	Engineman,	Fireman,	Highland ave.
Edgar F. Curtis,	July 30, 1869,	Asst. Engineman,	Fireman,	Lovell st.
Charles F. Hathaway,	Feb. 11, 1876,	Driver,	Fireman,	Grove st.
Joseph A. Sander,	April 28, 1868,	Hoseman,	On water works,	Grove st.
John F. Berton,	Feb. 14, 1857,	Hoseman,	Painter,	College ave.
James I. King,	March 30, 1865,	Hoseman,	Painter,	Elm ct.
Eugene H. Jones,	June 17, 1864,	Hoseman,	Lineman,	Morrison ave.
George C. Creighton,	Sept. 18, 1865,	Hoseman,	Type Founder,	Cutter ave.
John B. Rufer,	March 16, 1869,	Hoseman,	Blacksmith,	Lowell st.
George F. Bixby,	March 27, 1869,	Hoseman,	Salesman,	Highland ave.
Charles A. Frink,	April 23, 1873,	Hoseman,	Undertaker,	West st.
Robert W. Jesson,	May 10, 1873,	Driver,	Fireman,	Pitman st.

HOSE COMPANY NO. 2.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Francis W. Ring,	Aug. 7, 1854,	Captain,	Fireman,	Wheatland st.
Daniel R. Spike,	March 22, 1844,	Lieutenant,	Janitor,	Broadway.
Henry A. Angier,	April 30, 1838,	Driver,	Fireman,	Jaques st.
William F. Marble,	June 22, 1852,	Hoseman,	Fish Dealer,	Moreland st.
Harry V. Spike,	Aug. 2, 1873,	Hoseman,	Clerk,	Sargent ave.
Charles A. Woodbury,	Jan. 31, 1859,	Hoseman,	Foreman,	Sargent ave.
Frederic E. Cushing,	Dec. 20, 1845,	Hoseman,	Painter,	Marshall st.
Benjamin Marble,	May 1, 1870,	Hoseman,	Clerk,	Temple st.
John H. Pattee, Jr.,	Sept. 13, 1861,	Hoseman,	Painter,	Marshall st.
J. Walter Holmes,	Sept. 8, 1875,	Hoseman,	Victualler,	Marshall st.

HOSE COMPANY NO. 3.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Henry J. Turner,	Feb. 24, 1865,	{ Lieutenant, Driver,	Fireman,	Somerville ave.
Francis S. Brown,	Feb. 4, 1845,	Hoseman,	Watchman,	Columbus ave.
Thomas W. Joy,	Feb. 22, 1856,	Hoseman,	Cooper,	Somerville ave.
Alfred R. Higgins,	Feb. 25, 1849,	Hoseman,	Park Laborer,	Prospect st.
Edward A. Parker,	Oct. 29, 1851,	Hoseman,	Park Laborer,	Prescott st.
Walter J. Green,	Oct. 25, 1868,	Hoseman,	Florist,	Somerville ave.
Joseph F. Green,	Aug 9, 1878,	Hoseman,	Teamster,	Mystic st.
Peter J. Kelley,	March 29, 1879,	Hoseman,	Teamster,	Mystic st.

HOSE COMPANY NO. 5.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Edwin F. Trefren,	March 28, 1858,	Captain,	Fireman,	Lowell st.
William J. Blaisdell,	May 16, 1846,	Lieutenant,	Painter,	Summer st.
Abner Peterson,	Feb. 28, 1879,	Driver,	Fireman,	Porter st.
Martin E. Driscoll,	Dec. 21, 1872,	Hoseman,	Painter,	Miller st.
Horace L. Dunklee,	Dec. 12, 1854,	Hoseman,	Fireman,	Somerville ave.
George R. Green,	Feb. 27, 1866,	Hoseman,	Florist,	Somerville ave.
Albert F. McGrath,	July 14, 1877,	Hoseman,	Butcher,	Lowell st.
Otto T. Teakles,	March 22, 1871,	Hoseman,	Plasterer,	Atherton st.
Frederick G. Jones,	Nov. 26, 1866,	Hoseman,	Patrol Driver,	Somerville ave.
Adam H. Gibby, Jr.,	Sept. 2, 1874,	Hoseman,	Electrician,	Summer st.

HOSE AND CHEMICAL COMPANY NO. 6.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Joseph A. Cribby,	Aug. 22, 1864,	Captain,	Fireman,	Newbury st.
George W. Bridges,	March 22, 1876,	Lieutenant,	Fireman,	Westminster st.
John T. Coneeny,	Nov. 2, 1876,	Driver,	Fireman,	Ellsworth st.
Walter M. Brown,	Sept. 6, 1863,	Hoseman,	Teamster,	Highland ave.
Elmer C. Shiere,	Apr. 29, 1878,	Hoseman,	Clerk,	Elm st.
Charles H. Bridges,	Nov. 29, 1848,	Hoseman,	Machinist,	Westminster st.
Homer A. White,	July 27, 1865,	Hoseman,	Painter,	Highland ave.
George H. Keay,	Sept. 23, 1868,	Hoseman,	Fish dealer,	Herbert st.

HOSE AND CHEMICAL COMPANY NO. 7.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Arthur M. Gilman,	Aug. 19, 1866,	Lieutenant,	Fireman,	College ave.
Arthur C. Sellon,	July 15, 1863,	Driver,	Fireman,	Hancock st.
George R. Dale,	June 22, 1871,	Hoseman,	Fireman,	Lexington ave.
Harry G. White,	June 14, 1870,	Hoseman,	Electrician,	Hudson st.
Charles W. Hughes,	March 26, 1876,	Hoseman,	Painter,	Highland ave.
Wm. E. Bucknam, Jr.,	Oct. 12, 1870,	Hoseman,	Mason,	Hudson st.
Alfred M. Pride,	Apr. 6, 1869,	Hoseman,	Carpenter,	Hudson st.

CHEMICAL ENGINE COMPANY A.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Willfred Young,	Aug. 7, 1874,	Lieutenant,	Fireman,	Highland ave.
Frank L. Draper,	July 31, 1852,	Operator,	Fireman,	Chester ave.
Charles H. Timson,	May 27, 1859,	Driver,	Fireman,	Broadway.

HOOK AND LADDER COMPANY NO. 1.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Melvin B. Ricker,	Aug. 30, 1841,	Captain,	Fireman,	Prospect st.
Horace P. Ewell,	Feb. 28, 1857,	Lieutenant,	Carpenter,	Bow-st. pl.
Richard F. Clarkson,	May 18, 1859,	Driver,	Fireman,	Homer sq.
William A. McLane,	Jan. 7, 1860,	Ladderman,	Engineer,	Clark st.
Patrick J. Follon,	March 3, 1859,	Ladderman,	Laborer,	School st.
James D. Perkins,	Nov. 25, 1858,	Ladderman,	Paperhanger,	Bow-st. pl.
James E. Thompson,	Sept. 1, 1869,	Ladderman,	Laborer,	Broadway.
John H. Ford,	July 16, 1859,	Ladderman,	Painter,	Oak st.
Frank H. Eaton,	Feb. 1, 1855,	Ladderman,	Teamster,	Prospect pl.
Charles A. Caswell,	Jan. 18, 1870,	Ladderman,	Teamster,	Webster ave.
Herbert L. Webber,	Nov. 9, 1869,	Ladderman,	Painter,	Columbus ave.
John H. Foy,	May 16, 1867,	Ladderman,	Painter,	Somerville ave.
George A. Row,	Jan. 19, 1867,	Ladderman,	Teamster,	Somerville ave.
Charles M. Davis,	Dec. 5, 1878,	Ladderman,	Mason,	Washington st.

HOOK AND LADDER COMPANY NO. 2.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Horace W. Hutchins,	Aug. 26, 1866,	Captain,	Fireman,	Hudson st.
Charles E. Shaw,	Oct. 13, 1854,	Lieutenant,	Paperhanger,	Eastman pl.
Harry F. Bucknam,	Sept. 21, 1872,	Driver,	Fireman,	Highland ave.
John E. Hill,	Dec. 25, 1845,	Ladderman,	Salesman,	Cherry st.
Clarence H. Alley,	March 16, 1869,	Ladderman,	Carpenter,	Highland ave.
Clarence T. Conant,	Dec. 10, 1868,	Ladderman,	Milkman,	Hudson st.
William J. Kennedy,	March 19, 1863,	Ladderman,	Plumber,	Alpine st.
LeBaron Emery,	May 11, 1859,	Ladderman,	Painter,	Alpine st.
John H. Givan,	June 9, 1865,	Ladderman,	Grocer,	Francis st.
Charles F. Mills,	Aug. 26, 1876,	Ladderman,	Carpenter,	Alpine st.
Joseph E. Emery,	Aug. 2, 1870,	Ladderman,	Painter,	Alpine st.

Respectfully submitted,

JAMES R. HOPKINS,

Chief Engineer.

REPORT OF THE CHIEF OF POLICE.

OFFICE OF THE CHIEF OF POLICE, }
January 4, 1904. }

To the Honorable, the Mayor and Board of Aldermen of the City of Somerville:—

Gentlemen,—I respectfully submit a report of the doings of the police department for the year ending December 31, 1903.

Arrests.

Whole number of arrests made	1,846
Males	1,756
Females	90
Americans	942
Foreigners	904

Miscellaneous.

NUMBER HELD FOR TRIAL FOR THE FOLLOWING CRIMES AND OFFENCES.

Assault and battery	123
Assault felonious	3
Bastardy	6
Breaking and entering building	31
Contempt of court	3
Disturbing the peace	29
Drunkenness	917
Forgery	1
Fraud	2
Idle and disorderly	4
Incest	1
Keeping for sale adulterated food	19
Keeping disorderly house	3
Larceny	138
Larceny in building	3
Larceny from person	8
Lewdness	6
Malicious mischief	20
Neglected children	18
Neglect to support family	28
Peddling without license	10
Profane swearing	2
Receiving stolen property	4
Stubborn child	12
Threats	10
Unlawfully keeping Great Dane dog	1
Violation of city ordinances	77
Violation of health regulations	7
Violation of liquor law	6
Violation of Lord's Day	64
Vagrancy	10
Walking on railroad track	115
Wilful trespass	80
Total	1,761

POLICE SIGNAL, PATROL WAGON AND AMBULANCE SERVICE.

Number of en-duty reports made by patrolmen	213,828
Number of runs made with wagon	1,153
Number of prisoners conveyed to station	1,334
Number of miles run with wagon	1,930
Number of telephone calls registered	9,818
Number of persons conveyed in the ambulance	306

In General.

While the number of arrests has increased somewhat this year over any previous year, there has been less crime, as the table of arrests shows only an increase in minor offenses and a less number of serious cases.

Two officers were retired upon half pay, on account of being incapacitated for further police service, and the vacancies were filled by new men; the department now consists of a chief, one captain, three lieutenants, five sergeants, one inspector, and forty-one regular and ten reserve patrolmen; total, sixty-two, all of whom are well equipped with revolvers, hand-cuffs, and clubs.

Official Roster of Department.**MELVILLE C. PARKHURST, CHIEF.**

Robert R. Perry, Captain.	Dennis Kelley, Lieutenant.
Eugene A. Carter, Lieutenant.	Charles E. Woodman, Lieutenant.
Edward McGarr, Sergeant.	George H. Carleton, Sergeant.
Arthur E. Keating, Sergeant.	Eugene H. Gammon, Sergeant.
James M. Harmon, Sergeant.	Thomas Damery, Inspector.

Patrolmen.

Phineas W. Skinner.	Edward M. Carter.
John E. Fuller.	Francis A. Perkins.
George L. Smith.	Jacob W. Skinner.
William H. Johnston.	David A. Bolton.
Theodore E. Heron.	Ira S. Carleton.
Michael T. Kennedy.	Ezra A. Dodge.
Charles W. Stevens.	Daniel G. Simons.
James J. Pollard.	Frederick H. Googins.
Samuel Burns.	William J. Davidson.
Jotham Chisholm.	John A. Dadmun.
Elmer E. Drew.	George L. Rice.
Eugene A. Woodsum.	John A. Ray.
Myron S. Gott.	Charles W. Reick.
Herbert Hilton.	Frank C. Hopkins.
Charles E. Byrnes.	Hudson M. Howe.
Charles W. Allen.	Ernest S. Goff.
Frederick J. Balcom.	Frank H. Graves.
Sanford S. Lewis.	Harry L. Allen.
Henry A. Sudbey.	William J. Sutherland.
Harvey R. Fuller.	Thomas F. McNamara.
Albion L. Staples.	

Reserve Police Force.

Louis F. Arnold.
James M. Lynch.
Martin Sharry.
Robert T. Blair.
Theodore S. Hall.

Charles S. Johnston.
George E. Reece.
Henry Y. Gilson.
Ernest Howard.
George A. C. Peters.

In conclusion, I wish to thank the honorable Edward Glines, mayor, the board of aldermen, the honorable justices, and the clerk of the police court for their uniform support to myself and officers of the department. To the officers in my command I also extend thanks for their constant support and strict attention to duty.

Respectfully submitted,

MELVILLE C. PARKHURST,
Chief of Police.

REPORT OF SEALER OF WEIGHTS AND MEASURES.

OFFICE OF SEALER OF WEIGHTS AND MEASURES, }
City Hall Annex, Somerville, January 7, 1904. }

To His Honor, the Mayor, and the Board of Aldermen:—

The following report of the sealer of weights and measures for the year ending December 31, 1903, is respectfully submitted.

Section 21, chapter 62, of the Revised Laws provides that sealers of weights and measures shall annually give public notice, by advertisement or by posting in one or more public places in their respective cities and towns, notices to all inhabitants or persons having usual places of business therein who use weights, measures or balances for the purpose of selling goods, wares, merchandise, or other commodities, or for public weighing, to bring in their weights, measures and balances to be adjusted and sealed. Such sealers shall attend in one or more convenient places, and shall adjust, seal and record all weights, measures and balances so brought in.

Section 34 of the same chapter provides that each sealer of weights and measures, including the county treasurer, shall receive a fee of one dollar for sealing each platform balance if weighing 5,000 pounds or more, and fifty cents if weighing less than that amount, and three cents each for sealing all other weights, measures, scales, beams, or balances. He shall also have a reasonable compensation for all necessary repairs, alterations and adjustments made by him.

When weights, measures and balances are sealed, as provided in Section 21 (that is, brought to the office), no fee is charged for sealing.

In compliance with the foregoing Section 21, the customary notice was given by advertisement in the Somerville Journal in March.

During the year the sealer visited all places in the city where goods were sold or bought, and tested and sealed all scales, weights and measures which were found correct, and condemned all found beyond repair and useless. One hundred and thirty-four scales, weights and measures were adjusted before sealing, and nine scales were tagged for repairs, five of which were repaired as ordered, and the remaining four put out of use.

Work done in the office during the year 1903 was as follows:—

Number of scales sealed	225	
Number of weights sealed	201	
Number of dry measures sealed	542	
Number of glass milk jars sealed	63,516	
Number of tin liquid measures and milk cans sealed	4,283	
Number of coal baskets sealed	50	
		<hr/>
Total number of all kinds sealed		68,817
Number of scales adjusted and sealed	36	
Number of weights adjusted and sealed	8	
Number of dry measures adjusted and sealed	1	
		<hr/>
Total number adjusted and sealed		45
Number of scales tagged for repairs	4	
Number of scales repaired as ordered	3	
		<hr/>
Total number tagged and repaired		7
Number of scales condemned	8	
Number of dry measures condemned	12	
Number of liquid measures condemned	2,122	
Number of coal baskets condemned	4	
		<hr/>
Total number condemned		2,146
		<hr/>
Total number of tests of all kinds in the office		71,015

Work done outside of the office:—

Number of scales sealed	1,081	
Number of weights sealed	3,613	
Number of dry measures sealed	1,006	
Number of liquid measures sealed	1,292	
Number of yard sticks sealed	89	
Number of coal baskets sealed	8	
		<hr/>
Total number sealed		7,089
Number of scales adjusted and sealed	61	
Number of weights adjusted and sealed	27	
Number of dry measures adjusted and sealed	1	
		<hr/>
Total number adjusted and sealed		89
Number of scales tagged for repairs	5	
Number of scales repaired as ordered	2	
		<hr/>
Total number tagged and repaired		7
Number of scales condemned	2	
Number of dry measures condemned	27	
Number of liquid measures condemned	6	
Number of yard sticks condemned	2	
Number of coal baskets condemned	2	
		<hr/>
Total number condemned		39
		<hr/>
Total number of tests outside of the office		7,224
		<hr/>
Total number of tests in and out of the office		78,239

Receipts for the year 1903:—

Appropriation	\$1,200 00	
Received for sealing	392 27	
Received for adjusting	4 50	
		<hr/>
		\$1,596 77

Expenditures for the year 1903:—

Printing, books, and supplies	. . .	\$61 03	
Amount paid helper	. . .	159 00	
Amount paid for team	. . .	210 00	
Salary of sealer	. . .	1,000 00	
		<hr/>	\$1,430 03
Unexpended balance	. . .		<hr/> \$166 74

There has been a marked increase in the business of this department since 1897, my first year as sealer. The number of tests for that year was 9,663, while in the year 1903 the number was 78,239, or more than eight times as many in 1903 as in 1897. The increase has been mostly in work brought to the office, for which there is no charge for sealing; consequently the receipts have not increased at the same rate as the work. In 1897 the receipts were \$283.78, and in 1903 they were \$396.77, making an increase in receipts of only forty per cent., while the work has increased over eight hundred per cent.

JOHN H. DUSSEAUT,
Sealer of Weights and Measures.

REPORT OF THE CITY SOLICITOR.

Somerville, February 16, 1904.

To His Honor, the Mayor, and the Board of Aldermen of the City of Somerville:—

Gentlemen,—The following is my report as city solicitor for the year 1903.

By chapter 129 of the Acts of the Legislature of the year 1903, the city was authorized to use for a public school or any other municipal purpose such portions of the land on Highland avenue and Hudson street, acquired in the year 1902 for the erection of an armory, as are not occupied by the armory building.

By chapter 327, a special commission was created, consisting of the mayors of Cambridge and Somerville and the chairmen of the boards of selectmen of Arlington and Belmont, to make certain improvements in Alewife brook and its tributaries. The matter was referred by the commission in large part to the city engineer of Somerville; but action has been delayed at the request of the metropolitan park commissioners, who are now engaged in investigations with a view to the improvement of the shores of Mystic river at the same time.

With representatives of other municipalities, I joined in successful opposition to the petition by the mayor of Newton for the withdrawal of that city from the metropolitan water district, by which its contribution to the expenses of the district would have ceased.

A petition by the town of Wakefield for legislation obliging the north metropolitan sewerage district to pay \$180,000, for the cost of constructing a large drain within the limits of that town, was opposed by myself and by representatives of several other municipalities in the district, at hearings before committees of the legislature. The expense to Somerville of the legislation proposed would exceed \$25,000, and, if it were treated as a precedent, the expense would become much greater than that sum. A bill on the petition, notwithstanding the opposition, was reported on favorably by several committees of the legislature and passed both houses. Believing the bill to be an unjust measure, I obtained from mayors and other officials of the cities of Somerville, Cambridge, Medford, Malden, Melrose and Everett, and the towns of Belmont, Arlington and Winchester, letters to the governor requesting him to veto the bill, and presented the letters to him, with a written statement of facts and arguments, together with documents bearing upon the subject matter, and took part

in a hearing before him. The governor vetoed the bill and the house failed to pass it over his veto.

The bridge over Mystic river at Middlesex avenue, authorized by chapter 491 of the acts of the year 1901, has been completed and the question of apportioning the cost among Somerville and other municipalities will soon come before the courts for adjustment.

Agreements have been made with the owners of certain ledges in West Somerville, under chapter 504 of the acts of the year 1902, which will probably prevent any repetition of the attempts of previous years to secure legislation obliging the city to grant licenses to blast in that district. No agreement has been made as yet with the city of Cambridge, which also desired the privilege of blasting in its ledge.

Petitions for the abolition of five grade crossings of the Fitchburg division of the Boston & Maine railroad and the crossing of the Boston & Albany division of the New York and Hudson River railroad at Somerville avenue are still pending in the superior court, awaiting action on the part of the railroads or of the city government.

Thirty-five cases are now pending in various courts, in which the city is interested.

A case brought by the contractor who constructed the Winthrop-avenue storm water drain was settled, after many hearings before an auditor, for about the sum originally offered by the city, with interest. Two land damage suits for change of grade in Myrtle street were settled for \$112.50 each, and one for change of grade in Broadway was settled for \$500. Four highway accident cases were settled for \$40, \$90, \$100, and \$750, respectively. A case was tried for injuries claimed by a woman to have been received by falling into a manhole in the Sacramento-street subway, and a verdict was given in favor of the city. A case was tried for injuries received by a workman from blasting during the excavation by the city of a trench for a sewer, and a verdict was given in favor of the city. Two highway accident cases were settled without expense to the city; by a drain layer, in one case, and by a property owner, in the other, who were summoned in by the city to defend. Suits brought by the city against a contractor and against the Boston Elevated Railway Company to recover expenses incurred by the city in connection with a former highway accident case, which was decided against the city after trial, were settled, the contractor paying the city the sum of \$1,000, being the full amount of the verdict against the city in the original case.

Very respectfully,

FRANK W. KAAH,

City Solicitor.

REPORT OF THE CITY CLERK.

OFFICE OF THE CITY CLERK, }
January 28, 1904. }

To the Honorable, the Mayor, and the Board of Aldermen:—

Gentlemen,—The following is respectfully submitted as the thirty-second annual report of the city clerk of the city of Somerville, and is for the year ending December 31, 1903.

The receipts and payments were as follows:—

Receipts.

Balance from year 1902, being for dog license issued in December, 1902:—		
1 female at \$5.00	\$5 00	
Less city clerk's fee paid to the treasurer in December, 1902, 1 at \$.20	20	
		\$4 80
For dog licenses issued in 1903:—		
1,536 males at \$2.00	\$3,072 00	
299 females at \$5.00	1,495 00	
29 spayed at \$2.00	58 00	
4 breeders' licenses at \$25.00	100 00	
		\$4,725 00
Recording mortgages, assignments, etc., 706 papers	\$442 25	
Certificates of marriage intentions, 693 at \$.50	346 50	
Furnishing copies of records	37 25	
Licenses:—		
To collect junk, 30 at \$10.00	300 00	
For junk shop, 2 at \$25.00	50 00	
For billiard and pool tables and bowling alleys, 18 licenses, for 57 tables and 9 alleys, at \$2.00	132 00	
For roller skating rink	10 00	
To private detectives, 2 at \$10.00	20 00	
To auctioneers, 23 at \$2.00	46 00	
To sell fireworks, 56 at \$1.00	56 00	
To keep intelligence offices, 13 at \$2.00	26 00	
For amusements, 23 at \$1.00	23 00	
To street musicians, 22 persons at \$.50	11 00	
To slaughter cattle, 5 at \$1.00	5 00	
For recording and issuing liquor licenses, 30 at \$1.00	30 00	
Junk collectors' badges, 2 at \$.50	1 00	
Interest on deposits	24 06	
		1,560 06
Total receipts		\$6,289 86

Payments.

To Joseph O. Hayden, county treasurer, June 1 and December 1, receipts for dog licenses from December 1, 1902, to November 30, 1903, both in- clusive:—		
1,534 males at \$2.00	\$3,068 00	
300 females at \$5.00	1,500 00	
29 spayed at \$2.00	58 00	
4 breeders' licenses at \$25.00	100 00	
	<hr/>	
	\$4,726 00	
Less city clerk's fees, 1,867 at \$.20	373 40	
	<hr/>	\$4,352 60
To the city treasurer, monthly:—		
City clerk's fees for issuing and recording dog licenses, 1,868 at \$.20	\$373 60	
All the receipts above specified, except for dog licenses	1,560 06	
	<hr/>	1,933 66
Total payments		<hr/>
		\$6,286 26
Balance January 1, 1904, being for dog li- censes issued in December:—		
2 males at \$2.00	\$4 00	
Less city clerk's fees paid to the city treasurer, 2 at \$.20	40	
	<hr/>	\$3 60
		<hr/>

Licenses and Permits.

In addition to the licenses mentioned in the foregoing statement, licenses and permits, granted by the Board of Aldermen, for which no fee is charged, have been issued as follows:—

Innholders	4
Common victuallers	41
Auctioneers (to veterans of the Civil War)	6
Drain layers	14
Newsboys	273
Newsboys' licenses revoked	9
To cry calling in streets:—	
Junk collectors	30
Umbrella mender	1
Umbrella mender and locksmith	1
To cry goods in streets	33
Number in addition granted but not called for	13
To ring bell in streets:—	
Ice cream venders	3
Number in addition granted but not called for	3
Scissors' sharpeners	5
Number in addition granted but not called for	1
To Socialist party to hold series of meetings on public grounds	1
To set up and use engines:—	
gas engine	1
steam engine	1
To set up and use furnace, with 10-horse electric motor, for melt- ing iron	1
To blast rock or stone	5

To maintain projections over sidewalks:—

signs	3
druggist's mortar sign	1
transparency	1
bay-windows	2
To set and maintain hitching posts	1
To erect and maintain posts and guy wires while building bridge,	1
To suspend campaign flag over street	1
To move buildings through streets	10
To build carriage-shed-addition to stable within 18 inches of line	
of lot	1
To play musical instruments in wagon moving through streets dur-	
ing political campaign (fee remitted)	1
To Somerville Fourth of July Association to use certain public	
grounds for the purposes of the celebration	1
For use of part of Central Hill Park by Ladies' Volunteer Aid So-	
cietv, July 4	1
To charitable organization to parade in streets with music (fee	
remitted)	1
To semi-military organization to drill on public park	1

The West End Street Railway Company has been granted locations for a turnout in Springfield street, about midway between the two ends of the street, and an extension of the turnout in Concord avenue into Springfield street.

The same company has also been granted a new location for its tracks in Broadway, from the parkway to Marshall street, for the purpose of straightening them so as to lessen the friction in running heavy cars.

Permission has been given to operate the cars on all these locations by the overhead single trolley electric system of motive power.

Locations have been granted in the streets for gas mains, and for poles for the support of electric wires to be used for telephonic and electric lighting, heating and power purposes.

Before an order granting any of these privileges to use the streets takes effect an agreement is filed by the company obtaining such privilege, for the adequate protection of the city.

Births.

Number of births (exclusive of still-births) in Somerville in 1903 registered	1,626	
More than previous year	101	
Males	827	
Females	799	
	<hr/>	1,626
Born of American parents	536	
Born of foreign parents	693	
Born of American father and foreign mother	205	
Born of foreign father and American mother	186	
Born of American mother and father of unknown nationality	2	
Born of foreign mother and father of unknown nationality	4	
	<hr/>	1,626
Number of still-births in Somerville in 1903 registered	58	
Number of births in other places in 1903 registered in Somerville	198	
	<hr/>	1,882
Whole number of births in 1903 registered in Somerville		1,882
Number reported by both canvasser and physician	1,273	
Number reported by canvasser alone	361	
Number reported by physician alone	172	
Number reported by clerk or registrar of other place, canvasser and physician	4	
Number reported by clerk or registrar of other place and canvasser	10	
Number reported by clerk or registrar of other place and physician	18	
Number reported only by clerk or registrar of other place	29	
Number of still-births taken from death records	12	
Number of births found in death records and not otherwise reported	3	
	<hr/>	1,882
Number of cases of twins		15

Marriages.

Number of intention certificates issued in 1903	693	
More than previous year	6	
Marriages registered	728	
More than previous year	22	
Both parties American	386	
Both parties foreign	165	
American groom and foreign bride	90	
Foreign groom and American bride	87	
	<hr/>	728 couples
First marriage of	1,303	
Second marriage of	146	
Third marriage of	7	
	<hr/>	728 couples

Deaths.

(Exclusive of still-births.)

Number of deaths in Somerville in 1903	.	.	.	.	.	.	.	.	955
More than previous year	.	.	.	.	.	.	.	.	65
Males	.	.	.	.	.	.	.	.	454
Females	.	.	.	.	.	.	.	.	501
									955
Under ten years of age	.	.	.	.	.	.	.	.	268
10 and under 20 years of age	.	.	.	.	.	.	.	.	30
20 and under 30 years of age	.	.	.	.	.	.	.	.	68
30 and under 40 years of age	.	.	.	.	.	.	.	.	76
40 and under 50 years of age	.	.	.	.	.	.	.	.	64
50 and under 60 years of age	.	.	.	.	.	.	.	.	77
60 and under 70 years of age	.	.	.	.	.	.	.	.	149
70 and under 80 years of age	.	.	.	.	.	.	.	.	148
80 and under 90 years of age	.	.	.	.	.	.	.	.	66
90 years of age and over	.	.	.	.	.	.	.	.	9
									955
Age of oldest person deceased	.	.	.	.	.	.	.	102 yrs. 1 mo. 7 dys.	
Born in Somerville	.	.	.	.	.	.	.	.	266
Born in other places in the United States	.	.	.	.	.	.	.	.	372
Of foreign birth	.	.	.	.	.	.	.	.	314
Birthplace unknown	.	.	.	.	.	.	.	.	3
									955
Number of deaths in January	.	.	.	.	.	.	.	.	100
“ “ February	.	.	.	.	.	.	.	.	88
“ “ March	.	.	.	.	.	.	.	.	101
“ “ April	.	.	.	.	.	.	.	.	91
“ “ May	.	.	.	.	.	.	.	.	81
“ “ June	.	.	.	.	.	.	.	.	50
“ “ July	.	.	.	.	.	.	.	.	64
“ “ August	.	.	.	.	.	.	.	.	70
“ “ September	.	.	.	.	.	.	.	.	69
“ “ October	.	.	.	.	.	.	.	.	75
“ “ November	.	.	.	.	.	.	.	.	57
“ “ December	.	.	.	.	.	.	.	.	109
									955

The number of still-births recorded during the year was fifty-eight.

The causes of death may be found in the report of the board of health.

Assessed Polls and Registered Voters.

MEN'S LISTS.

WARD.	PRECINCT.	As- sessed Polls, May 1, 1903.	REGISTERED VOTERS.							
			Nov. 24, 1902.	Re- vised Lists of Aug. 1, 1903.	Added in Sept. and Oct., 1903.	Oct. 20, 1903.	Added in Nov., 1903.	Nov. 25, 1903.	Voted Nov. 3, 1903.	Voted Dec. 8, 1903.
Ward 1 . .	Precinct 1 . . .	1,217	352	513	183	696	56	752	596	543
" 1 . .	" 2 . . .	534	321	258	53	311	34	345	270	260
" 1 . .	" 3 . . .	543	187	262	69	331	28	359	295	285
" 1 . .	" 4 . . .	685	368	296	102	398	17	415	362	358
		2,979	1,527	1,329	407	1,736	135	1,871	1,523	1,446
Ward 2 . .	Precinct 1 . . .	969	455	385	94	479	13	492	393	350
" 2 . .	" 2 . . .	1,230	543	498	91	589	35	624	483	405
" 2 . .	" 3 . . .	837	420	378	70	448	24	472	381	362
		3,036	1,418	1,261	255	1,516	72	1,588	1,257	1,117
Ward 3 . .	Precinct 1 . . .	956	648	593	57	650	21	671	534	398
" 3 . .	" 2 . . .	1,154	738	675	76	751	21	772	584	425
		2,110	1,386	1,268	133	1,401	42	1,443	1,118	823
Ward 4 . .	Precinct 1 . . .	1,232	638	574	123	697	50	747	550	463
" 4 . .	" 2 . . .	918	529	471	85	556	48	604	441	397
		2,150	1,167	1,045	208	1,253	98	1,351	991	860
Ward 5 . .	Precinct 1 . . .	1,207	722	664	97	761	48	809	615	459
" 5 . .	" 2 . . .	649	819	357	39	396	15	411	318	225
" 5 . .	" 3 . . .	870	....	407	52	459	18	477	369	304
		2,726	1,541	1,428	188	1,616	81	1,697	1,302	988
Ward 6 . .	Precinct 1 . . .	1,229	726	662	85	747	29	776	582	442
" 6 . .	" 2 . . .	1,882	910	831	211	1,042	58	1,100	790	496
		3,111	1,636	1,493	296	1,789	87	1,876	1,372	938
Ward 7 . .	Precinct 1 . . .	1,088	601	565	72	637	24	661	510	467
" 7 . .	" 2 . . .	1,460	823	737	86	823	36	859	637	569
		2,548	1,424	1,302	158	1,460	60	1,520	1,147	1,036
City . . .	. . . . .	18,660	10,100	9,126	1,645	10,771	575	11,346	8,710	7,208

WOMEN'S VOTING LISTS.

WARD.	PRECINCT.	Nov. 24, 1902.	Revised Lists of Aug. 1, 1903.	Added in Sept. and Oct., 1903.	October 20, 1903.	Added in Nov., 1903.	Nov. 25, 1903.	Voted Decem- ber 8, 1903.
Ward 1 . . .	Precinct 1 .	18	22	..	22	..	22	16
" 1 . . .	" 2 .	8	5	..	5	..	5	3
" 1 . . .	" 3 .	18	10	..	10	..	10	1
" 1 . . .	" 4 .	..	..	..	..	1	1	..
		44	37	..	37	1	38	20
Ward 2 . . .	Precinct 1 .	5	5	..	5	..	5	..
" 2 . . .	" 2 .	5	5	..	5	..	5	..
" 2 . . .	" 3 .	1	1	..	1	..	1	..
		11	11	..	11	..	11	..
Ward 3 . . .	Precinct 1 .	31	25	2	27	1	28	4
" 3 . . .	" 2 .	58	58	2	60	..	60	9
		89	83	4	87	1	88	13
Ward 4 . . .	Precinct 1 .	23	18	3	21	..	21	3
" 4 . . .	" 2 .	21	21	..	21	..	21	2
		44	39	3	42	..	42	5
Ward 5 . . .	Precinct 1 .	48	48	..	48	3	51	11
" 5 . . .	" 2 .	23	10	..	10	..	10	..
" 5 . . .	" 3 .	..	12	..	12	..	12	1
		71	70	..	70	3	73	12
Ward 6 . . .	Precinct 1 .	45	42	..	42	..	42	3
" 6 . . .	" 2 .	33	30	..	30	..	30	2
		78	72	..	72	..	72	5
Ward 7 . . .	Precinct 1 .	35	30	1	31	19	50	39
" 7 . . .	" 2 .	45	44	2	46	20	66	54
		80	74	3	77	39	116	93
City . . .	. . . . .	417	386	10	396	44	440	148

Elections.

The following is a statement of the votes cast, in the several wards of the city, for the candidates for the various offices, and on the question submitted to the voters, at the state election held November 3, 1903:—

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
GOVERNOR.									
John L. Bates,	Republican,	781	301	818	746	871	873	894	5,284
Thomas F. Brennan,	Socialist Labor,	1	11	3	3	12	12	7	49
John C. Chase,	Socialist,	71	42	41	42	50	51	42	339
Oliver W. Cobb,	Prohibition,	10	3	10	8	5	13	10	59
William A. Gaston,	Democratic,	635	873	236	184	346	403	189	2,866
Blank,		25	27	10	8	18	20	5	113
LIEUTENANT-GOVERNOR.									
John Quincy Adams,	Socialist,	86	50	54	52	62	73	63	440
Curtis Guild, Jr.,	Republican,	771	305	825	746	820	889	896	5,252
William F. Merrill,	Prohibition,	10	7	8	13	10	16	17	81
Richard Olney, 2d,	Democratic,	547	814	196	153	358	345	134	2,547
Moritz E. Ruther,	Socialist Labor,	5	16	4	3	9	7	9	53
Blank,		104	65	31	24	43	42	28	337
SECRETARY.									
Olof Bokelund,	Socialist,	82	40	44	46	55	66	42	375
John F. Coyle,	Socialist Labor,	9	21	8	7	16	9	14	84
Alfred L. Cutting,	Prohibition,	16	49	14	14	12	19	20	144
Ezekiel M. Ezekiel,	Democratic,	493	729	182	117	314	286	105	2,226
William M. Olin,	Republican,	777	307	820	759	841	901	922	5,327
Blank,		146	111	50	48	64	91	44	554
TREASURER AND RECEIVER GENERAL.									
John A. Billings,	Socialist,	80	49	45	48	55	68	53	398
Edward S. Bradford,	Republican,	759	294	815	738	828	871	893	5,198
Napoleon B. Johnson,	Prohibition,	11	5	14	16	10	19	24	99
Frederick A. Nagler,	Socialist Labor,	10	20	3	32	17	8	8	98
Thomas C. Thacher,	Democratic,	496	758	166	97	310	299	104	2,230
Blank,		167	131	75	60	82	107	65	687
AUDITOR.									
John H. Hagan,	Socialist Labor,	26	21	10	7	21	18	16	119
Joseph Orr,	Socialist,	66	43	40	44	50	58	42	343
Alfred E. Steele,	Prohibition,	15	7	14	21	13	26	25	121
Francois X. Tetrault,	Democratic,	475	739	164	113	291	273	100	2,155
Henry E. Turner,	Republican,	751	306	822	738	832	882	901	5,232
Blank,		190	141	68	68	95	115	63	740
ATTORNEY-GENERAL.									
John A. Anderson,	Socialist Labor,	24	23	10	10	22	14	22	125
William J. Carroll,	Socialist,	66	40	41	44	50	60	42	343
Henry M. Dean,	Prohibition,	15	8	13	17	20	20	22	115
John J. Flaherty,	Democratic,	486	764	156	111	280	287	95	2,179
Herbert Parker,	Republican,	762	296	831	751	842	889	898	5,269
Blank,		170	126	67	58	88	102	68	679

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
COUNCILLOR.									
Edwin R. Hoag,	Republican,	724	286	802	713	801	829	867	5,022
John L. Mulholland,	Socialist,	92	68	53	62	68	79	64	486
George A. Sanderson,	Democratic,	494	754	169	131	335	313	123	2,311
Charles E. Mongan		....	....	....	....	....	1	....	1
Blank,		213	149	94	85	98	150	93	882
SENATOR, THIRD DISTRICT.									
William C. Byam,	Socialist,	99	60	45	62	76	75	49	466
Charles P. Lincoln,	Democratic,	472	693	152	127	302	268	106	2,120
John M. Woods,	Republican,	797	383	865	748	851	939	931	5,514
Blank,		155	121	56	54	73	90	61	610
REPRESENTATIVE, SIXTH DIST.									
Samuel Newton Cutler,	Republican,	767	....	....	....	....	....	....	767
John Diggins,	Democratic,	665	....	....	....	....	....	....	665
John Fremont Wilber,	Socialist,	52	....	....	....	....	....	....	52
Blank,		39	....	....	....	....	....	....	39
REPRESENTATIVES, 7TH DIST. (3)									
Charles E. Blaisdell,	Socialist,	....	78	62	....	....	85	60	285
William C. Brown,	Democratic,	....	678	132	....	....	272	93	1,175
William J. Cunningham,	Democratic,	....	716	140	....	....	264	87	1,207
Robert Luce,	Republican,	....	289	805	....	....	858	871	2,823
Squire E. Putney,	Socialist,	....	72	54	....	....	79	60	265
Elmer A. Stevens,	Republican,	....	266	769	....	....	829	861	2,725
Arthur P. Vinal,	Republican,	....	293	821	....	....	854	866	2,834
Frederick J. White.	Democratic,	....	734	168	....	....	277	106	1,285
Frederick W. Wolffer,	Socialist,	....	50	40	....	....	59	43	192
Geo. A. Gordon,		....	....	....	....	....	1	....	1
Edward T. O'Neil,		....	....	....	....	....	1	....	1
Blank,		....	595	363	....	....	537	394	1,889
REPRESENTATIVE, EIGHTH DIST.									
Charles A. Cashdollar,	Socialist,	....	....	....	58	81	....	....	139
William H. Cushman,	Republican,	....	....	....	756	833	....	....	1,589
Henry T. Gallishaw,	Democratic,	....	....	....	114	291	....	....	405
Blank,		....	....	....	63	97	....	....	160
COUNTY COMMISSIONER.									
George R. Duren,	Democratic,	490	722	154	108	287	275	105	2,141
Samuel O. Upham,	Republican,	758	296	824	735	842	870	889	5,214
Charles W. Ussher,	Socialist,	86	69	49	57	66	80	61	468
Blank,		189	170	91	91	107	147	92	887
REGISTER OF PROBATE AND INSOLVENCY.									
Emanuel Bernier,	Socialist,	87	56	42	50	63	71	51	420
Samuel H. Folsom,	Republican,	761	291	830	747	845	882	900	5,256
Frank J. Simonds,	Democratic,	481	736	148	109	290	275	97	2,136
Blank,		194	174	98	85	104	144	99	898

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1.	2	3	4	5	6	7	
REGISTER OF DEEDS.									
Edwin O. Childs,	Republican,	814	388	868	769	893	948	923	5,603
Charles F. Drury,	Socialist,	201	231	91	90	143	147	76	979
Blank,		508	638	159	132	266	277	148	2,128
COUNTY TREASURER.									
Joseph O. Authier,	Democratic,	476	732	159	107	298	266	131	2,169
Charles G. F. Claus,	Socialist,	91	64	53	54	55	74	56	447
Joseph O. Hayden,	Republican,	765	303	802	748	843	899	872	5,232
Martin Binney,		....	....	....	....	....	1	....	1
Blank,		191	158	104	82	106	132	88	861
ACCEPTANCE of Chapter 454, Acts of 1903, to provide for JOINT CAUCUSES or PRIMARIES.									
Number of "Yes" votes,		494	346	618	493	630	666	581	3,828
Number of "No" votes,		391	488	227	245	307	324	228	2,210
Blank,		638	423	273	253	365	382	338	2,672

The following is a statement of the votes cast in the several wards of the city for the candidates for the various offices, and on the question of granting liquor licenses, at the city election held December 8, 1903:—

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
MAYOR.									
Leonard B. Chandler,	Republican,	891	354	640	752	674	593	851	4,755
Charles E. Mongan,	Democratic,	438	716	141	75	253	289	134	2,046
Andrew Mortenson,	Socialist Labor,	7	4	1	1	1	11	7	32
Squire E. Putney,	Socialist,	24	16	9	12	14	23	15	113
Charles A. Grimmons,		....	....	....	....	3	....	....	3
Blank,		86	27	32	20	43	22	29	259
ALDERMAN-AT-LARGE, WARD 1.									
Martin M. Breen,	Democratic,	481	583	105	77	211	185	77	1,719
Thomas T. M. Sargent,	Republican,	729	240	607	673	612	568	739	4,168
Bernard L. Sliney,	Socialist,	46	30	15	21	28	30	30	200
Blank,		190	264	96	89	137	155	190	1,121
ALDERMAN-AT-LARGE, WARD 2.									
Hugh F. Colliton,	Democratic,	367	509	77	69	182	152	71	1,427
Nicholas H. Flynn,	Socialist,	37	35	17	54	30	42	20	235
Augustus Pacheur,	Socialist Labor,	10	28	4	2	49	9	14	116
William H. Smith,	Republican,	707	366	599	625	571	570	738	4,176
Blank,		325	179	126	110	156	165	193	1,254
ALDERMAN-AT-LARGE, WARD 3.									
Harald Hellberg,	Socialist Labor,	50	73	11	14	30	29	18	225
Joseph S. Pike,	Republican,	736	317	665	667	634	581	751	4,351
Alfred Schofield,	Socialist,	76	91	33	26	51	42	39	358
F. Q. Harrington,		....	....	....	....	1	....	....	1
Blank,		584	636	114	153	272	286	228	2,273
ALDERMAN-AT-LARGE, WARD 4.									
Henry T. Gallishaw,	Democratic,	355	536	95	81	195	158	61	1,481
John L. Murdock,	Socialist,	71	30	12	19	27	32	34	225
Herbert P. Nickerson,	Republican,	686	235	601	697	603	547	728	4,097
Blank,		334	316	115	63	163	201	213	1,405
ALDERMAN-AT-LARGE, WARD 5.									
Robert E. Cronin,	Democratic,	352	531	80	69	199	159	65	1,455
John J. Higgins,	Republican,	697	237	608	655	665	557	714	4,133
George Sautter,	Socialist,	36	24	13	21	28	29	34	185
Blank,		361	325	122	115	96	193	223	1,435
ALDERMAN-AT-LARGE, WARD 6.									
Charles E. Blaisdell,	Socialist,	40	35	25	23	28	41	30	222
Daniel M. Frye,	Republican,	695	224	589	653	597	602	732	4,092
Patrick Keating,	Democratic,	347	546	92	63	189	186	62	1,485
Blank,		364	312	117	121	174	109	212	1,409
ALDERMAN-AT-LARGE, WARD 7.									
Warren C. Daggett,	Republican,	700	293	537	633	566	503	614	3,846
Stephen H. Davis,	Socialist,	111	149	70	46	97	110	218	801
J. Willard Jones,		....	....	....	....	....	2	2	4
Howard D. Moore,		....	....	....	....	....	....	2	2
Joseph A. Sander,		....	....	....	....	....	....	3	3
John Taylor,		....	....	....	....	1	....	....	1
Blank,		635	675	216	181	324	323	197	2,551

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
WARD ALDERMEN (2) WARD 1.									
Charles C. Bean,	Socialist,	26	....	....	....	....	....	....	26
Cornelius Bowen,	Democratic,	565	....	....	....	....	....	....	565
William T. Gill,	Republican,	655	....	....	....	....	....	....	655
John J. McCarty,	Democratic,	588	....	....	....	....	....	....	588
John T. Rockett,	Socialist,	25	....	....	....	....	....	....	25
Elmer H. Spaulding,	Republican,	686	....	....	....	....	....	....	686
Blank,		347	....	....	....	....	....	....	347
WARD ALDERMEN (2) WARD 2.									
Jacob Berman,	Socialist.	....	30	....	....	....	....	....	30
Elphonso I. Everton,	Republican,	....	216	....	....	....	....	....	216
William A. Flaherty,	Democratic,	....	697	....	....	....	....	....	697
Joseph P. Phillips,	Democratic,	....	656	....	....	....	....	....	656
George A. Wilson,	Republican,	....	219	....	....	....	....	....	219
Blank,		..	416	....	....	....	....	....	416
WARD ALDERMEN (2) WARD 3.									
William F. Barker,	Republican,	....	....	594	....	....	....	....	594
Leonard W. Cole,	Republican,	....	....	625	....	....	....	....	625
Charles W. Erb,	Socialist,	....	....	37	....	....	....	....	37
William Hine,	Socialist,	....	....	27	....	....	....	....	27
Henry W. Pitman,		....	....	1	....	....	....	....	1
Blank,		....	....	362	....	....	....	....	362
WARD ALDERMEN (2) WARD 4.									
Francis P. Cooper,	Socialist,	....	....	....	24	....	....	....	24
John J. Dellea,	Democratic,	....	....	....	66	....	....	....	66
Jeremiah F. Durgin,	Democratic,	....	....	....	60	....	....	....	60
Sidney B. Keene,	Republican,	....	....	....	625	....	....	....	625
Herbert I. Loughton,	Republican,	....	....	....	615	....	....	....	615
Charles W. White,	Socialist,	....	....	....	38	....	....	....	38
Blank,		....	....	....	292	....	....	....	292
WARD ALDERMEN (2) WARD 5.									
John P. Burke,	Democratic,	....	....	....	....	227	....	....	227
Lewis N. Gilman,	Socialist,	....	....	....	....	28	....	....	28
George S. Lovejoy,	Republican,	....	....	....	....	618	....	....	618
Patrick J. McLaughlin,	Democratic,	....	....	....	....	150	....	....	150
Jesse S. Newcomb,	Republican,	....	....	....	....	630	....	....	630
George Smith,	Socialist,	....	....	....	....	33	....	....	33
Blank,		....	....	....	....	290	....	....	290
WARD ALDERMEN (2) WARD 6.									
William R. Boyle,	Democratic,	....	....	....	....	....	194	....	194
William J. Dence,	Socialist,	....	....	....	....	....	34	....	34
Edwin F. Tarbox,	Socialist,	....	....	....	....	....	67	....	67
John F. Thompson,	Republican,	....	....	....	....	....	692	....	692
Frank D. Wilkins,	Republican,	....	....	....	....	....	536	....	536
Blank,		....	....	....	....	....	353	....	353
WARD ALDERMEN (2) WARD 7.									
Walter A. Dow,	Republican,	....	....	....	....	....	....	817	817
French O. J. Tarbox,	Republican,	....	....	....	....	....	....	765	765
Blank,		....	....	....	....	....	....	490	490
SCHOOL COMMITTEE (2yrs.) WARD 1.									
Henry F. Curtis,	Republican,	806	....	....	....	....	....	....	806
Charles F. McCaffrey,	Democratic,	537	....	....	....	....	....	....	537
John F. Wilber,	Socialist,	28	....	....	....	....	....	....	28
Blank,		95	....	....	....	....	....	....	95

CANDIDATE.	Party.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
SCHOOL COMMITTEE (2 yrs.) WARD 2.									
Daniel H. Bradley,	Democratic,	....	701	....	....	....	....	....	701
Douglass S. Flewelling,	Republican,	....	234	....	....	....	....	....	234
Blank,		...	182	....	....	....	....	....	182
SCHOOL COMMITTEE (2 yrs.) WARD 3.									
Frank Ramsey,	Democratic,	....	....	109	....	....	...	....	109
George E. Whitaker,	Republican,	....	....	644	....	....	....	....	644
Blank,		....	....	83	....	....	....	....	83
SCHOOL COMMITTEE (2 yrs.) WARD 4.									
John F. Gill,	Democratic,	....	....	....	70	....	....	....	70
John L. Mulholland,	Socialist,	....	....	....	17	....	....	....	17
George W. W. Whiting,	Republican,	....	....	....	716	....	....	....	716
Blank,		....	....	....	62	....	....	....	62
SCHOOL COMMITTEE (2 yrs.) WARD 5.									
Quincy E. Dickerman,	Republican,	....	....	....	....	667	....	...	667
Albert E. Hughes,	Democratic,	....	....	....	....	230	....	....	230
Elizabeth Goldthwait Porter,	Socialist,	....	....	....	....	33	....	....	33
Blank,		....	....	....	....	70	....	....	70
SCHOOL COMMITTEE (2 yrs.) WARD 6.									
John J. Brine,	Democratic,	....	....	...	....	....	199	....	199
Frederick A. P. Fiske,	Republican,	....	....	....	....	....	617	....	617
Jos. J. Pollard,		....	....	....	....	....	2	....	2
Blank,		....	....	....	....	....	125	....	125
SCHOOL COMMITTEE (2 yrs.) WARD 7.									
George C. Mahoney,	Republican,	....	....	....	....	....	....	581	581
Horace P. Makechnie,	Rep., Citizen.	....	....	....	....	....	....	520	520
Blank,		....	....	....	....	....	....	28	28
Shall liquor licenses be granted?									
Yes,		515	688	194	131	274	281	165	2,248
No,		760	298	587	683	659	596	827	4,410
Blank,		171	131	42	46	55	61	44	550

The number voting at the state and city elections will be found in the foregoing tables of the men's and women's voting lists.

Liquor License Question.

To afford a ready reference for those interested in the matter, the votes given during all the years of its submission to the people, on the question, "Shall licenses be granted for the sale of intoxicating liquors in this city?" are included in this report. These figures, together with the number of registered voters and the estimated population for each year, are as follows:—

YEAR.	YES.	NO.	BLANK.	REGISTERED VOTERS.	ESTIMATED POPULATION.
1881	979	1,222		3,678	26,000
1882	627	1,159		3,778	26,500
1883	767	1,343		4,407	27,000
1884	806	1,709		4,470	28,000
1885	428	1,604		3,969	*29,992
1886	214	1,321		4,089	32,000
1887	555	2,427		4,574	34,000
1888	744	2,456		5,399	36,000
1889	635	1,706	335	5,286	39,000
1890	999	2,282	409	5,556	*40,117
1891	1,054	2,598	279	5,938	43,000
1892	1,427	3,288	347	7,587	46,000
1893	1,547	2,654	218	7,943	48,000
1894	1,098	2,869	246	8,007	50,000
1895	1,854	4,708	459	8,410	*52,200
1896	1,466	3,680	332	9,379	54,000
1897	1,626	3,815	486	8,925	56,000
1898	1,595	3,501	486	8,657	57,500
1899	1,892	3,340	374	8,838	60,000
1900	1,660	3,427	321	9,620	*61,643
1901	1,579	3,295	374	9,499	63,500
1902	1,645	3,242	360	10,100	65,000
1903	2,248	4,410	550	11,346	67,000

* Census.

The vote on this question does not apply to licenses of the sixth and seventh classes. The board of aldermen is required by law to grant annually one or more licenses of the sixth class, and it may also grant licenses of the seventh class to suitable persons.

These two classes of licenses are defined in the law as follows:—

Sixth Class,—Licenses to retail druggists and apothecaries to sell liquors of any kind for medicinal, mechanical or chemical purposes only, and to such persons only as may certify in writing for what use they want them.

Seventh Class,—Licenses to dealers in paints or in chemicals to sell alcohol for mechanical, manufacturing or chemical purposes only.

GEORGE I. VINCENT,
City Clerk.

ORDINANCES.

Somerville, March 18, 1904.

The following ordinances have been adopted since the printing of the annual reports for the year 1902.

GEORGE I. VINCENT,
City Clerk.

No. 44.

An Ordinance to Amend Section Four of Chapter Twenty-Seven of the Revised Ordinances of 1900, Entitled "Hawkers and Pedlers."

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section four of chapter twenty-seven of the Revised Ordinances of 1900, entitled "Hawkers and Pedlers," is hereby amended by adding thereto the following words: "No person so licensed shall cry his wares or calling in a street earlier in the day than seven o'clock A. M., nor later in the day than 7 o'clock P. M., and no person so licensed shall ring a bell in a street earlier in the day than seven o'clock A. M., nor later in the day than 9 o'clock P. M."

Section 2. This ordinance shall take effect upon its passage.

Approved May 29, 1903.

No. 45.

An Ordinance Relative to the Removal of Snow and Ice from Sidewalks.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. No owner, tenant or occupant of property abutting upon a sidewalk within the limits of any highway or townway in this city, and no agent of such owner having the charge of such property shall place or suffer to remain on such sidewalk for more than six hours between sunrise and sunset on any day any snow nor any ice, unless such ice is made even and covered with sand or other suitable material to prevent slipping.

Section 2. Whoever violates any of the provisions of section one of this ordinance shall be liable to a penalty of not more than twenty dollars for each offense.

Section 3. Upon neglect or violation of the duty imposed by section one of this ordinance, such duty may be performed by the street commissioner of this city at the expense of the person liable to perform the same as above provided.

Section 4. No owner or tenant of land abutting upon a sidewalk within the limits of any highway or townway in this city shall suffer to remain on such sidewalk for more than six hours between sunrise and sunset on any day any snow nor any ice, unless such ice is made even and covered with sand or other suitable material to prevent slipping. Such owner and tenant shall remove all snow and ice from such sidewalk within the time and in the manner herein specified.

Section 5. Whoever violates any of the provisions of section four of this ordinance shall forfeit to the city a sum not to exceed twenty dollars for each offense.

Section 6. The city treasurer, with the approval of the mayor, may in civil actions prosecute and adjust claims inuring to the city under the provisions of this ordinance.

Section 7. Section thirty-three of chapter fifteen of the Revised Ordinances of 1900 is hereby repealed.

Section 8. This ordinance shall take effect upon its passage.

Approved December 4, 1903.

No. 46.

An Ordinance Relative to Snow and Ice on Sidewalks.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. No owner or tenant of land abutting upon a sidewalk within the limits of any highway or townway in this city shall suffer to remain on such sidewalk for more than six hours between sunrise and sunset, on any day, any snow nor any ice, unless such ice is made even and covered with sand or other suitable material to prevent slipping. Such owner and tenant shall remove all snow and ice from such sidewalk within the time and in the manner herein specified.

Section 2. Whoever violates any of the provisions of section one of this ordinance shall forfeit to the city the sum of twenty-five dollars for each offense.

Section 3. This ordinance shall be enforced in the following manner only: The city treasurer, with the approval of the mayor, may in civil actions prosecute and adjust claims inuring to the city under the provisions of this ordinance.

Section 4. Sections 4 and 5 of an ordinance approved December 4, 1903, entitled "An Ordinance Relative to the Removal of Snow and Ice from Sidewalks," are hereby repealed.

Section 5. This ordinance shall take effect upon its passage.

Approved February 12, 1904.

JURY LIST OF THE CITY OF SOMERVILLE.

Prepared by the Registrars of Voters, under Chapter 176 of the Revised Laws, January 25, 1904.

Posted February 13, 1904, and accepted by the Board of Aldermen February 25, 1904.

A

Abbott, Alonzo F., 8 Concord avenue, Clerk.
Adams, Charles, 117 Highland avenue, No occupation.
Adams, Charles M., 22 Highland road, Claim adjuster.
Adams, Frank H., 46 Summer street, Treasurer.
Adcock, John H., 205 Highland avenue, Plumber.
Albee, John G., 101 Flint street, Clerk.
Allen, George H., 29 Rogers avenue, No occupation.
Allen, Hiram, 230 Washington street, Musician.
Allison, James W., 95 Mt. Vernon street, Carpenter.
Andrews, James M., 172 Broadway, Builder.
Andrews, John, 34 Albion street, Agent.
Armstrong, Thomas W., 39 Partridge avenue, Sawyer.
Armstrong, William, 17 Dane street, Watchman.
Arnold, L. Frank, 28 Vinal avenue, Treasurer.
Attwood, J. Lorenzo, 18 Herbert street, Bookkeeper.
Atwater, George W., 1 Avon street, Foreman.
Atwell, Horace F., 7 Newbury street, Salesman.
Ayer, Fred C., 157 Highland avenue, Lumber dealer.
Ayer, John F., 17 Walter street, Lumber dealer.

B

Babb, Charles D., 37 Bradley street, Real estate agent.
Babb, Nathaniel F., 193 School street, Salesman.
Babbitt, Artemas B., 110 Perkins street, Machinist.
Bacon, Oliver, 19 Pembroke street, Clerk.
Bailey, John T., 16 Bradley street, Stationery salesman.
Bailey, Walter C., 72 Mt. Vernon street, Engraver.
Baker, Elias L., 26 Conwell avenue, Real estate agent.
Baker, Nicholas, 9 Bedford street, Cooper.
Baker, Roger H., 9 Bedford street, Cooper.
Baker, Roswell F., 26 Hudson street, Salesman.
Baldwin, Henry W., 82 Mt. Vernon street, Trav. salesman.
Ball, Charles C., 122 Holland street, Assistant cashier.
Bancroft, Edward A., 31 School street, Barrel dealer.
Barker, Edgar C., 12 Ellsworth street, Clerk.
Barker, Thomas J., 15 Dimick street, Undertaker.
Barker, William H., 367 Summer street, Manufacturer.
Barnard, Thomas L., 11 Grant street, Fish dealer.
Barnes, Frank, 24 Milton street, Box manufacturer.
Bartlett, George E., 5 North Union street, Machinist.
Bassett, Albert H., 17 Everett street, Real estate agent.
Beals, William H., 27 Howe street, Clerk.
Bean, Gerard D., 136 Lowell street, Bookkeeper.
Bean, John D., 3 Lincoln street, Teamster.

Beckley, Henry F., 221 Morrison avenue, Salesman.
Beckman, Frank W., 36 Stone avenue, Clerk.
Belding, Oscar H., 182 Highland avenue, Builder.
Belding, Rainsford W., 79 Benton road, Builder.
Bennett, Dana W., 41 Putnam street, Insurance agent.
Bennett, Daniel J., 37 Stone avenue, Harness maker.
Bent, Charles E., rear 9 Marion street, Carpenter.
Bentley, George W., 19 Adams street, Com. merchant.
Berry, Andrew C., 6 Centre street, Engraver.
Berry, Arthur W., 53 Hudson street, Builder.
Berton, John F., 134 College avenue, Painter.
Bertwell, Henry P., 20 Cameron avenue, Clerk.
Billings, George A., 75 Willow avenue, Collector.
Binney, Henry M., 8 Parker place, Painter.
Binney, Martin, 9 Linden place, Claim agent.
Bishop, William F., 20 Wheeler street, Bookkeeper.
Blake, Charles M., 13 Preston road, Newsdealer.
Blake, Frank R., 21 Derby street, Machinist.
Boodry, George R., 26 Josephine avenue, Stereotyper.
Booker, James A., 193 Pearl street, Salesman.
Bossey, Charles W., 22 Ashland street, Salesman.
Bossey, Thomas F., 111 Elm street, No occupation.
Bosworth, William H., 10 Powder House ter., Adv. mgr.
Boutin, Abraham, 18 Park avenue, Janitor.
Bowen, Cornelius, 128 Linwood street, Safe mover.
Bowen, Lorenzo W., 16 Broadway, Decorator.
Bowers, Harrison G. O., 411 Highland av., No occupat'n.
Bowman, Henry F., 10 Winter-hill circle, Lithographer.
Boyden, William B., 34 Quincy street, Messenger.
Boyer, Charles W., 50 Highland avenue, Mech. engineer.
Boyer, F. Howard, 50 Highland avenue, Mech. engineer.
Boyer, George R., 29 Wigglesworth street, Builder.
Bradley, Daniel, 19 Concord avenue, No occupation.
Bradley, Daniel A., 67 Beacon street, Piano finisher.
Bradshaw, Charles H., 7 Westwood rd., Real estate agt.
Bradshaw, J. Edwin, 16 St. James avenue, Clerk.
Brastow, George K., 162 Summer street, Clerk.
Bremner, John A., 49 Bow street, Picture frame mfr.
Briggs, Sylvester R., 19 Flint street, Broker.
Brigham, Charles A., 3 Dell street, Produce salesman.
Brine, Charles F., 36 Columbus avenue, Tailor.
Brooks, Wm. Eugene, 19-R Prospect Hill ave., Salesman.
Brothers, Frank H., 60 Putnam street, Jewelry salesman.
Brown, Charles E., 36 Albion street, Carpenter.
Brown, Fred E., 311 Washington street, Bookkeeper.
Brown, Fred R., 258 Broadway, Expressman.
Brown, John H., 311 Washington street, Painter.
Brown, Lyman H., 42 Columbus ave., Livery stable kpr.
Brown, William C., 58 Beech street, Builder.
Bryant, Thomas H., 6 Edmands street, Receiving clerk.
Buckley, Patrick W., 17 Garden court, Confect'y dealer.
Bucknam, Davis P., 12 Vine street, Mason.
Buffum, Thomas J., 75 Florence street, Salesman.
Bullard, Walter H., 22 Stickney avenue, Grocer.
Bunten, Frederick R., 32 Cedar st., Feather duster mfr.
Burbank, Francis H., 13 Broadway place, Bookkeeper.
Burbank, Winfield S., 241 School street, Sawdust dealer.
Burgess, Edward W., 59 Otis street, Pedler.
Burgess, William H., 38 Cambria street, Bond salesman.
Burke, Walter W., 337 Washington street, Hatter.
Burrows, George H., 25 North Union street, Machinist.

Bursaw, William J., 41 Dartmouth street, Insurance agt.
 Burton, Edward H., 41 Meacham rd., Provision salesman.
 Burton, Walter, 2 Homer square, Artist.
 Bushee, Charles E., 13 Sanborn avenue, Druggist.
 Butler, William, 106-A Albion street, Printer.
 Butters, Charles S., 19 Church street, Provision dealer.
 Butterworth, Robert, 172 Summer street, Manufacturer.
 Buttimer, Maurice, 351 Lowell street, Contractor.

C

Cameron, William G., 5 Lester terrace, Carpenter.
 Campbell, George S., Jr., 15 Windsor rd., Purchasing agt.
 Campbell, William J., 44-A Lake street, Machinist.
 Cann, Albert T., 38 Craigie street, Restaurant keeper.
 Card, Frederick L., 243 Pearl street, Provision dealer.
 Carnes, Henry, 11 Westwood road, No occupation.
 Carpenter, Albert Q., 7 Sargent avenue, Tinsmith.
 Carr, Eugene P., 18 Benton road, Jewelry mfr.
 Carr, Roy W., 130 College avenue, Confectioner.
 Carr, William R., 62 Chandler street, Real estate agent.
 Carruth, Frederick J., 34 Willow avenue, Manager.
 Carter, Lorenzo D., 13 Bartlett street, Salesman.
 Cate, Nathan E., 28 Everett avenue, Freight clerk.
 Chaffee, Emory F., 109 Pearl street, Apothecary.
 Chapin, Hiram O., 44 Dover st., Commission merchant.
 Chase, Washington I., 85 Vine street, Distiller.
 Chickering, William H., 15 Evergreen avenue, Clerk.
 Childs, Henry W., 23 Aldrich street, Agent.
 Clark, George W., 65 Central street, Cruller Mfr.
 Clark, Isaac H., 49 Brastow avenue, Mechanical engineer.
 Clarke, Charles E., 31 Berkeley street, Clerk.
 Clarke, George B., 31 Berkeley street, Electrotyper.
 Clement, Herman J., 35 Marshall street, Printer.
 Coan, Thomas S., 18 Fremont street, Bookkeeper.
 Coffin, Clarence D., 67 Hall avenue, Mason.
 Cole, Abram L., 42 Everett avenue, Provision dealer.
 Cole, Daniel H., 22 Edmands street, Clerk.
 Coles, John B., 127 Cross street, Milkman.
 Colleson, Clarence E., 19 Park avenue, Leather dealer.
 Collins, John D., 22 Vine street, Mason.
 Collins, J. Lincoln, 43 Stone avenue, Wire manufacturer.
 Colman, Charles W., 151 Central street, Architect.
 Comfort, James J., 5 Taunton street, Conductor.
 Conant, George H., 8 Park avenue, No occupation.
 Conant, William C., 28 Central street, Mirror mfr.
 Condit, Fred H., 255 Medford street, Musician.
 Condit, Sears, 255 Medford street, Real estate dealer.
 Connelly, Joseph A., 11 Craigie terrace, Carpenter.
 Cook, Forrest D., 301 Highland avenue, Reporter.
 Cook, Levi F., 108 School street, Rubber salesman.
 Copithorne, John, 81 School street, Carpenter.
 Corbett, John P., 36 Rossmore street, Polisher.
 Corliss, Charles H., 36 Greenville street, Clerk.
 Coyle, George R., 16 Maple avenue, Salesman.
 Craig, John W., 97 Washington street, Blacksmith.
 Creighton, Frederick W., 328 Highland ave., Bookkeeper.
 Creighton, George C., 30 Cutter avenue, Type founder.
 Crenner, Bartlett P., 61 Adams street, Leather dealer.
 Crimmings, Timothy F., 30 Vinal ave., Teamster & contr.

Crosby, Clifford F., 348 Summer st., Ventilating engin'r.
 Cross, John A., 104 Pearl street, Bookkeeper.
 Crotty, William B., 466 Somerville avenue, Grocer.
 Crowell, Louis F., 85 Benton road, Clerk.
 Cullin, Edwin, 222 Broadway, Provision dealer.
 Cullis, Edwin J., 201 Pearl street, Clerk.
 Cummings, George W., 47 Wallace street, Driver.
 Cummings, John H., 72½ Oxford street, Janitor.
 Cunningham, Thomas A., 60 Beacon street, Grocer.
 Cunningham, William J., 447-A Somerville ave., Laborer.
 Curran, Reuben L., 29 Dana street, Cabinetmaker.
 Currier, Francis E., 15 Flint street, Mason.
 Currier, James H., 9 Mossland street, Manager.
 Currier, Samuel E., 9 Howe st., Real estate and ins. agt.
 Cutler, Frank E., 70 Pearl street, Painter.
 Cutter, George B., 4 Pleasant avenue, Musician.

D

Dadmun, Henry H., 48 Oxford street, Salesman.
 Daggett, William H., 133 Summer street, Clerk.
 Dainty, Henry, 216 School street, Salesman.
 Dalton, James H., 22 Powder House terrace, Grocer.
 Danforth, George E., 149 Lowell street, Clerk.
 Daniels, Clarence A., 88 Munroe street, Clerk.
 Daniels, Edward S., 50 Spring street, Piano tuner.
 Daniels, Harry F., 21 Munroe street, Clerk.
 Davenport, Foster L., 301 Summer street, Shipper.
 David, James B., 78 Belmont street, No occupation.
 Davis, Albert I., 35 Fairmount avenue, Bookkeeper.
 Davis, Albert M., 16 Chauncey avenue, Teamster.
 Davis, Claude E., 280 Broadway, Ice cream mfr.
 Davis, Fred E., 85 Pearl street, Real estate dealer.
 Davis, George E., 48 Vinal avenue, Bookkeeper.
 Davis, George M., 20 Arthur street, Mason and builder.
 Davlin, James F., 15 Kingman court, Plumber.
 Dawes, Henry L., 8 Ashland street, Salesman.
 Dawson, Howard, 70 Albion street, Clerk.
 Dearborn, Luther G., 91 Thurston street, Coffee roaster.
 Delay, James, 48 Beacon street, Florist.
 Dennett, Alexander H., 54 Concord avenue, Paperhanger.
 Dennett, John M., 23 William street, Stable keeper.
 Densmore, Charles D., 44 Porter street, Merchant.
 Densmore, Edward D., 44 Porter street, Electrician.
 Denvir, William E., 197 Summer street, Shipper.
 Desmond, Daniel W., 1 Montrose st., Real estate agent.
 Dewire, Michael H., 399 Washington st., Confectioner.
 DeWolf, Lewis E., 334 Highland avenue, Tailor.
 Dinick, Charles W., 122 Line street, Manager.
 Dinsmore, Fred C., 8 Melvin street, Grain dealer.
 Doane, Nathaniel P., 19 Grand View ave., Tow boat agt.
 Dodd, George H., 54 Marshall street, Janitor.
 Dodge, Alvin H., 21 Benedict street, Artist.
 Dodge, Edwin G., 21 Benedict street, Artist.
 Doe, Freeland A., 187 Highland avenue, Cabinetmaker.
 Dow, Arthur F., 20 Avon street, Broker.
 Dowd, Thomas, 50 Chauncey avenue, Plasterer.
 Downing, John F., 14 Park street, Carpenter.
 Downing, John L., 30 Burnside avenue, Shipper.
 Drake, James, 45 Berkeley street, Carpenter.
 Dresser, George H., 193 School street, Superintendent.

Drinkwater, Frank M., 872 Broadway, Clerk.
 Driscoll, James F., 17 Cambria street, Machinist.
 Dunbar, John D., 3 Mystic street, Musician.
 Duncan, John, 2 Brastow avenue, Manufacturer.
 Dunham, George J., 54 Adams street, Carriage salesman.
 Dunham, Marshall W., 54 Adams street, Carriage sales'n.
 Dunklee, Daniel D., 109 Sycamore street, Furnace dealer.
 Dusseault, George A., 906 Broadway, Manager.
 Dustin, Harry N., 10 Church street, Clerk.
 Dwyer, Timothy C., 318 Somerville avenue, Clerk.
 Dyer, Henry H., 32 Elm street, Cigar dealer.
 Dyer, Josiah T., 156 School street, Men's furnishings dlr.

E

Eames, Byron, 143 Sycamore street, Ice dealer.
 Eames, Henry H., 13 Chapel street, Machinist.
 Eaton, John M., 58 Springfield street, No occupation.
 Eccles, William, 12 Lee street, Upholsterer.
 Edmands, John B., rear 19 Albion street, No occupation.
 Edwards, Edward H., 10 James street, Chiropodist.
 Egerton, Charles S., 63 Boston street, Cigar dealer.
 Eldridge, Frank, 47 Beach street, Salesman.
 Eldridge, Howard M., 16 Gilman street, Clerk.
 Elkins, John F., 142 Medford street, Contractor.
 Elliott, George E., 103 Jenny Lind avenue, Grocer.
 Elston, Abraham A., 25 Preston road, Contractor.
 Emerson, William J., 104 Broadway, Boot & shoe dealer.
 Emery, Allen A., 51 Oliver street, Butter salesman.
 Enslin, Theodore V., 156 Sycamore street, Clerk.
 Esty, Austin S., 203 School street, Manager.
 Evans, Henry, 13 Linden street, Teamster.
 Everton, Elphonso I., 34 Lake street, Real estate agent.

F

Falvey, John J., 15 Rush street, Civil engineer.
 Farnham, Charles E., 16 Grand View avenue, Clerk.
 Farnham, Rufus H., 33 Farragut avenue, Motorman.
 Farrell, Patrick S., 55 Lowell street, Painter.
 Farwell, Ruleffe H., 92 Central street, Pressman.
 Fellows, John H., 12 Elston street, Accountant.
 Fenelon, J. Robert, 15 Walnut street, Real estate agent.
 Ferguson, Charles H., 25 Hudson street, Foreman.
 Fernald, George M. D., 205 Broadway, Electrician.
 Field, Lorenzo A., 13 Evergreen avenue, No occupation.
 Fish, Benjamin F., Jr., 24 Boston street, Painter.
 Fisher, Alphonso, 152 Pearl street, Painter.
 Fisher, Arthur V., 62 Evergreen avenue, Advance agent.
 Fisk, Ellsworth, 44 Heath street, Clerk.
 Fitch, Nathan A., 40 Franklin street, Poultry dealer.
 Fitz, Charles E., 440 Broadway, Bookkeeper.
 Fitz, Daniel F., 24 Cedar street, Clerk.
 Fitz, George H., 45 Franklin street, Grain dealer.
 Flagg, Charles A., 24 Gibbens street, Salesman.
 Flaherty, James P., 12 Charles street, Junk dealer.
 Flitner, George J., 1 Clifton street, Wool grader.
 Flynn, William H., 67 Dane street, Real estate agent.
 Foote, Edward H., 138 Sycamore st., Pickle mfr.
 Forg, Peter, 52 Park street, Hardware manufacturer.
 Foss, Mayhew C., 9 Greene street, Broker.

Foster, Elmer E., 14 Lincoln street, Fireman.
Foster, George W., 7 Evergreen avenue, Insurance agt.
Foster, Henry, 21 Laurel street, Bookbinder.
Fox, Edward W., 123 College avenue, Jeweler.
Fox, John, 283 Somerville avenue, Laborer.
Foy, John H., 350 Somerville avenue, Glass worker.
Friend, Edward, 5 Cameron avenue, Painter.
Frink, William A., 88 Holland street, Undertaker.
Frost, George W., 38 Laurel street, Clerk.
Frye, Charles H., 43 Sargent avenue, Machinist.
Fudge, Edward J., 334 Somerville avenue, Undertaker.
Fulton, David, 4 Spring court, Laborer.

G

Gage, Burt O., 38 Dartmouth street, Machinist.
Gallagher, Francis W., 273 Washington street, R. E. agt.
Galloupe, Howard L., 55 Prescott street, Oil salesman.
Garland, John A., 76 Porter street, Publisher.
Garrett, Edwin E., 52 Mt. Vernon street, Clerk.
Garrity, Martin, Jr., 416 Norfolk street, Plumber.
Gary, Joseph E., 86 Irving street, Broker.
Geary, Patrick J., 41 Lake street, Clerk.
Gerrish, Charles E., 70 Boston street, Fruit dealer.
Gerrish, Theodore, 7 Greene street, Broker.
Gifford, Herbert C., 54 Preston road, Iron salesman.
Gilbert, Fred W., 101 School street, Shoe dealer.
Giles, Joseph J., 34 Putnam street, Real estate agent.
Gill, Antonio P., 202-B Washington street, Barber.
Gill, Martin, 72 Bonair street, Teamster.
Gillette, Hiram A., 72 College avenue, Manufacturer.
Gilley, Rodney O., 11 Walter street, Steward.
Gillis, Daniel B., 38 Benton road, Builder.
Gilman, John W., 85 College avenue, Manager.
Glines, Arthur W., 777 Broadway, Clerk.
Goddard, Edward A., Jr., 64 Wallace street, Clerk.
Godey, Frederick C., 11-A Eliot street, Slater.
Godfrey, Alexander M., 52 Berkeley street, Carpenter.
Godfrey, Benjamin F., 20 Avon street, Cooper.
Going, Myron F., 23 Melvin street, Stable keeper.
Goldsmith, Benjamin W., 7 Jasper street, No occupation.
Goldthwaite, Jerome I., 82 Mt. Vernon street, Clerk.
Goodspeed, William H., 37 Rush street, Cafe proprietor.
Gordon, Arthur C., 36 Bow street, Painter.
Graham, Robert C., 29 Greene street, No occupation.
Grant, Walter D., 35 Florence street, Clerk.
Graves, David B., 17 Rogers avenue, Floor walker.
Gray, Amasa, 71 Wallace street, Carpenter.
Gray, Frank E., 21-A Cutter avenue, Salesman.
Gray, Levi E., 4 Wellington avenue, Carpenter.
Green, Oscar F., 103 Summer street, Stair builder.
Greenough, John L., 19 Vernon street, Conductor.
Griffin, Augustus P., 22 Richdale avenue, Salesman.
Griffin, Daniel J., 5 Summer street, Bookkeeper.
Griffin, Edward B., 32 Rush street, Shipper.
Grover, George A., 10 Belmont place, Special officer.
Grover, Horace N., 26 Oxford street, No occupation.
Grover, Nelson H., 88 Avon street, Advertising agent.
Guild, Edgar A., 28 Webster avenue, Clerk.
Guild, Julius J., 325 Washington street, Provision dealer.
Gurnham, Thomas, 36 Hancock street, Newsdealer.

H

Hadley, Freddell O., 30 Conwell avenue, Electrician.
Hadley, Walter M., 24 Hathorn street, Coal dealer.
Hagen, Edward A., 23 Rossmore street, Glass maker.
Hale, C. Warner, 144 Highland avenue, Clerk.
Haley, Fred, 17 Grand View avenue, Insurance agent.
Hall, George G., 89 Cross street, Compositor.
Hall, Horace E., 25 Highland avenue, Horse dealer.
Hall, William A., 9 Veazie street, Teamster.
Hall, William Franklin, 103 Thurston street, Accountant.
Hallett, Warren, 155 Walnut street, Carpenter.
Hamblin, Franklin J., 30 Walnut street, Manager.
Harrington, George O., 7 Bolton street, Clerk.
Harrington, Nathan B., 7 Bolton street, Clerk.
Hartshorn, Frank S., 96 Glen street, Clerk.
Hartwell, Hayward, 77 Munroe street, Carpenter.
Hartwell, Walter C., 15 Kenwood street, Bookkeeper.
Harvey, George W., 8 Chester avenue, Salesman.
Haskell, Otis S. M., 279 Summer street, Confectioner.
Hatch, Arthur E., 46 Browning road, Manager.
Hatch, Frederick A., 77 Jaques street, Laborer.
Hathaway, Henry C., 12 Pembroke street, Painter.
Haven, George D., 181 Washington street, No occupation.
Haven, Harry M., 3 Boston street, Mechanical engineer.
Hayes, William T., 252 Medford street, Clerk.
Hayward, John G., 5 Windom street, Clerk.
Hepburn, James, 226 Somerville avenue, Grocer.
Hicks, Carlton, 8 Charnwood road, Railroad agent.
Higgins, John, 38 Linwood street, Dry goods dealer.
Higgins, Byron E., 20 Richdale avenue, Mason.
Higgins, Jeremiah T., 60 Chauncey avenue, Shipper.
Higgins, Solomon S., 158 Summer street, R. E. agent.
Hilliard, Benjamin, 17½ Marshall street, Miller.
Hinckley, James G., 254 School street, Butter dealer.
Hines, Alfred H., 9 Preston road, Mason.
Hodge, Charles W., 26 Billingham street, Bookkeeper.
Hodson, Albert O., 28 Pinckney street, Driver.
Hoit, Alonzo W., 275 Highland avenue, Produce dealer.
Hoit, Edward P., 275 Highland ave., Produce dealer.
Holden, George W., 97 Curtis street, Market gardener.
Holland, Charles J., 30 Aldrich street, Printer.
Holland, William L., 30 Aldrich street, Printer.
Hollis, William H., 30 Avon street, Decorator.
Holmes, Charles A., 265 Beacon street, Vinegar mfr.
Holmes, Frank H., 29-A Veazie street, Plumber.
Holmes, Samuel, 49 Thurston street, Poultry salesman.
Holt, Edward M., 32 Springfield street, Machinist.
Holt, Harry, 108 Porter street, Carpenter.
Holt, Samuel W., 197 Washington street, No occupation.
Hopkins, Charles W., 23 Boston street, Engraver.
Hopkins, J. Wesley, 27 Summit avenue, Music salesman.
Horton, Charles H., 101 School street, Clerk.
Horton, Charles P., 22 Everett avenue, Inspector.
Horton, David P., 36 Everett avenue, Trunk maker.
Horton, William A., 2 Billingham street, Artist.
Hosmer, Cyrus, 297 Summer street, Clerk.
Houdlett, Harry W., 58 Oliver street, Salesman.
Houdlett, Horace A., 58 Oliver street, Salesman.
Howard, Chester M., 228 Pearl street, Clerk.
Howard, Eugene P., 11 Hall avenue, Salesman.

Howard, J. Walter, 330 Broadway, Florist.
Howe, Frederick F., 40 Kidder avenue, Shipper.
Hulsman, Chester R., 44 Greenville street, Collector.
Humphrey, Edward G., 166 Highland avenue, Clerk.
Hunnewell, William A., 23 Milton street, Coal dealer.
Hunt, Cassius, 218 School street, Fish dealer.
Hunt, Charles E., 28 Brook street, Grocery clerk.
Hunt, John T., 28 Brook street, Grocery clerk.
Hunt, Warren F., 236 Highland avenue, Clerk.
Hunter, William H., 11 Sycamore street, Glass engraver.
Hutchinson, Llewellyn W., 95 Jenny Lind ave., Carpenter.

I

Ingalls, Oliver W., 11 Sycamore street, No occupation.

J

Jack, David, 112 Perkins street, Iron moulder.
Jackson, George W., 8 Hall street, Brush maker.
Jameson, Robert, 22 Bowdoin street, Billiard room kpr.
Jansson, Augustus L., 102 Wallace street, Salesman.
Jaques, Otis A., 66 Boston street, Fruit dealer.
Jenney, William, 244 Highland avenue, No occupation.
Jerauld, Horace D., 14 Chester avenue, No occupation.
Jones, Benjamin F., 51 Cherry street, Artist.
Jones, Henry M., 9 Chandler street, Carpenter.
Jones, Thomas F., 34 Line street, Transfer man.
Jones, Walter C., 51 Cherry street, Artist.
Joy, Alden B., 7 Craigie terrace, Carpenter.

K

Keane, John A., 109 School street, Piano tuner.
Kearney, Edward S., 206 Somerville ave., Sawdust dealer.
Keefe, Albert, 14 Edmands street, Produce dealer.
Keefe, William M., 745 Somerville avenue, Milk dealer.
Keegan, Dominick F., 31 Belmont street, Printer.
Kelley, Edward N., 17 Merriam street, Lather.
Kelley, John, 102 Highland avenue, Real estate agent.
Kelley, John J., 6 London street, Charcoal dealer.
Kelley, William, 15 Leland street, Janitor.
Kelly, Michael H., 12 Parker street, Carpenter.
Kendall, Franklin C., 55 Oxford street, Clerk.
Kendall, Henry A., 55 Oxford street, Bookkeeper.
Kendall, Isaac B., 338 Broadway, Insurance agent.
Kendall, Jonas B., Jr., 41 Russell street, Milk dealer.
Kendall, Philip S., 41 Russell street, Milk dealer.
Kennedy, John F., 19 Kent court, Conductor.
Kenneson, Charles A., 176 Walnut street, Stor. W. H. kpr.
Kenney, James, 4 Concord avenue, Carpenter.
Kenny, Miah G., 51 Munroe street, Superintendent.
Kerrigan, James, Jr., 351 Washington street, Teamster.
Kidder, Herbert A., 58 Walnut street, Cashier.
Kiley, Patrick J., 36 Prospect street, Wheelwright.
Kimball, Charles L., 19-A Cross street, Wood turner.
Kimball, Frank C., 25 Madison street, Sausage dealer.
Kimball, Harvey B., 13 Herbert street, Carpenter.
Kinsman, Joseph H., 20 Jaques street, Trav. salesman.
Kirk, Patrick, 31 Belmont street, Harness maker.
Knapp, Samuel, 3 Lester terrace, Salesman.

Kneeland, Sylvanus R., 7 Loring street, Reflector dealer.
 Kneeland, William B., 16 Greene street, Freight solicitor.
 Knowles, Benjamin H., 15 Parker street, Hatter.
 Knowles, Thomas, 27 Tyler street, Foreman.
 Knowles, Zoeth R., 119 Walnut street, Printer.
 Knowlton, Edward B., 40 Highland road, Pattern maker.
 Koen, Philip, 19 Adrian street, Milkman.

L

Lacy, Patrick, 63 Cherry street, Mason.
 Lambert, Frank S., 10 Cross street, Painter.
 Land, Lawrence P., 60 Marshall street, Carpenter.
 Landers, Arthur C., 225 Summer street, Bookkeeper.
 Lane, Eugene H., 58 Berkeley street, Butter dealer.
 Laughton, William, 42 Banks street, Bookbinder.
 Lavey, John T., 619-R Somerville avenue, Foundryman.
 Lawrence, Bernard W., 289 Highland ave., Produce dlr.
 Lawson, George W., 2 Lawson terrace, Carpenter.
 Lawson, Peter P., 101 Summer street, Machinist.
 Leavitt, Edwin, 13 Pinckney street, Insurance agent.
 Leavitt, Frank W., 468 Somerville avenue, Carriage mfr.
 Leonard, Eugene C., 86 Avon street, Ladies' tailor.
 Libbey, Albion H., 8 Ames street, Salesman.
 Libbey, George W., 215 Pearl street, No occupation.
 Libbey, Moulton C., 7 Jay street, Jeweler.
 Libby, George H., 21 Ashland street, Upholsterer.
 Libby, Stillman H., 45 Elm street, Real estate agent.
 Lind, John, 38 Clark street, Marble worker.
 Lindbladh, Gustave, 41 Greenville street, Paper ruler.
 Litchfield, J. Warren, 181 Broadway, Milk dealer.
 Little, John K., 93 Hudson street, Bookkeeper.
 Littlefield, Elisha, 65 Glen street, Carpenter.
 Littlefield, Samuel T., 321 Broadway, No occupation.
 Locke, Theodore H., 53 Central street, Clerk.
 Locke, Warren E., 94 College avenue, Real estate agent.
 Lombard, Richard J., 16 Evergreen avenue, Teamster.
 Lord, Benjamin F., 4 Pearl street, Provision dealer.
 Lord, Frank W., 4 Pearl street, Shoe salesman.
 Lorentzen, Henry, 101 Rogers avenue, Lock expert.
 Loud, Clarence W., 48 Hudson street, Salesman.
 Lounsbery, George H., 46 Houghton street, Bookkeeper.
 Loveland, Charles M. N., 898 Broadway, Stenographer.
 Lovering, Edward P., 7 Chester avenue, Mason.
 Lovering, Everett L., 21 Bradley street, Music teacher.
 Lovering, George H., 18 Chauncey avenue, Grocer.
 Lovering, Hiram A., 168 Broadway, Merchant.
 Lovering, John S., 27 Flint street, Teamster.
 Lowell, Frank M., 42 Aldrich street, Grocer.
 Lowell, George E., 11 Jasper st., Livery stable keeper.
 Lund, John C., 13 Cutter street, Porter.
 Lund, John Q., 13 Cutter street, Printer.
 Lyman, Albert C., 388 Somerville avenue, Upholsterer.
 Lynam, Charles P., 8 Hawthorne street, Instructor.
 Lynch, John B., 9 Cedar avenue, Bookbinder.
 Lyons, Timothy, J., 14 Chestnut street, Pedler.

M

Macdonald, John W., 23 Elm place, Salesman.
 Maddison, Arthur N., 7 Hall avenue, Stenographer.
 Makant, Robert, 33 Ibbetson street, Engraver.

Makechnie, Ernst H., 238 Elm street, Teacher of violin.
Mangan, William J., 3 Hawkins street, Electrician.
Mann, Alfred E., 75 Washington street, Undertaker.
Manning, John F., 152 Medford street, Teamster.
Manning, John J., 29 Park street, Barber.
Manning, Leighton W., 20 Berkeley street, Electrician.
Marr, George S., 37 Dover street, Carpenter.
Marshall, Frank H., 46 Chester street, Hay & grain dlr.
Marshall, John A., 153-A Willow avenue, Salesman.
Martin, John P., 56-S Walnut street, Clerk.
Martin, John W., 16 Montgomery avenue, Gilder.
Martin, Lewis R., 40 Grant street, Teamster.
Mason, Seth, 32 Madison street, Advertising agent.
Matthews, George F., 30 Dartmouth street, Carpenter.
Maynard, Everett A., 22 Forster street, Sexton.
Maynard, Fred L., 30 Ames street, Provision dealer.
Maynard, Lambert M., 90 Highland ave., No occupation.
McAllister, William H., 23 Wallace street, Brush maker.
McAskill, Scyrene B., 14 Bow street, Candy dealer.
McAvoy, Henry, 117 Somerville avenue, Stable keeper.
McCarthy, James F., 24 Preston road, Charcoal dealer.
McCarty, John, 27 Shawmut street, Charcoal dealer.
McCarty, William J., 154 Walnut street, Contractor.
McConnell, William N., 19-A Church street, Clerk.
McCrillis, Melvin C., 23 Dartmouth street, Beef dealer.
McDonald, William M., 56 Cedar street, Beef dealer.
McGann, Thomas F., 45 Putnam street, Brass founder.
McGrath, Charles T., 75 Harris street, Painter.
McKenna, David W., 7 Chestnut street, Pedler.
McKenna, George F., 292 Lowell street, Undertaker.
McLaughlin, Amos B., 27 Summit avenue, Trader.
McLean, C. Garfield, 78 Oxford street, Clerk.
McLean, William J., 78 Oxford street, Carpenter.
McManus, Patrick, 91 Prospect street, Motorman.
McMaster, Edward A., 12 Park street, Clerk.
McMaster, George R., 12 Park street, Armorer.
McMenimen, John, 11½ Concord avenue, Cigar dealer.
Medina, John, 2 Medina bldg., Elm street, Merchant.
Mentzer, Charles A., 47 Cherry street, Com. merchant.
Merrifield, Fred H., 478-R Somerville ave., Salesman.
Merrill, Ezra T., 90 Curtis street, Contractor.
Merrill, Warren A., 14 Westminster street, Salesman.
Merritt, Joseph W., 12 Mt. Vernon street, Salesman.
Merritt, William, 103 Pearl street, Railroad supt.
Messer, Melvin J., 27 Franklin street, Manager.
Middlemas, Henry H., 412 Highland avenue, Motorman.
Miller, John F., 13 Flint street, Telegrapher.
Miller, William S., 255 Medford street, Bookkeeper.
Miner, Robert A., 56 Chester street, No occupation.
Mink, Frank L., Jr., 85 Elm street, No occupation.
Mink, Louis, 85 Elm street, No occupation.
Molineaux, John G., 41 Thorndike street, Clerk.
Molineaux, Michael R., 41 Thorndike street, Clerk.
Mongan, Manasses P., 1 Garden court, Salesman.
Monroe, Daniel N., 47-A Franklin street, Teamster.
Moore, Frank M., 35 Boston street, Electrician.
Moran, Frank E., 48 Berkeley street, Clerk.
Moran, Henry W., 189 Pearl street, Iron moulder.
Morang, Arthur C., 157 Lowell street, Salesman.
Morrill, Frank A., 5 Bradley street, Photographer.
Morrill, Fred L., 18 Arlington street, Clerk.

Morrill, Harry V., 25 Sargent avenue, Insurance agent.
 Morrison, Frank E., 23 Brook street, Provision dealer.
 Muldoon, Thomas F., 408 Somerville avenue, Blacksmith.
 Mullen, William F., 43 Thurston st., Leather merchant.
 Mulliken, John E. A., 39 Dartmouth street, Bookkeeper.
 Mulqueeney, Lot J., 420 Norfolk street, Laborer.
 Murdock, George F., 160 Pearl street, Meat cutter.
 Murphy, John F., 65 Waterhouse street, Fireman.
 Murphy, Stephen F., 102 College avenue, Manager.

N

Nason, Charles C., 21 Wigglesworth street, Carpenter.
 Naughton, Michael, 32 Dane avenue, Laborer.
 Nelson, Jesse L., 50 Richdale avenue, Carriage salesman.
 Nelson, Willard C., 2 Hillside avenue, Artist.
 Nickerson, Alfred P., 41-D Franklin street, Bookkeeper.
 Nickerson, John F., 25 Flint street, No occupation.
 Niles, James H., 4 Fairlee street, Beef salesman.
 Northrop, Herbert N., 145 College avenue, Clerk.
 Norwood, Winfield S., 942 Broadway, Trimmer.
 Noyce, Benjamin C., 42 Oliver street, Carpenter.
 Nutting, Henry J., 57 Winslow avenue, Salesman.
 Nye, Thomas V. B., 51 Cedar street, Salesman.

O

O'Connell, Michael, 35 Linwood street, Pedler.
 Odiorne, William E., 15 Greenville street, Salesman.
 O'Leary, David T., 277 Washington street, Confectioner.
 Onthank, Charles H., 47 Munroe street, Provision dlr.
 Osborn, Edgar W., 86 Porter street, Furniture dealer
 Otterson, Alpheus, 19 Prospect Hill avenue, Salesman.
 Owen, John W., 20 Melvin street, Civil engineer.

P

Page, Daniel W., 21-R Webster avenue, Night watchman.
 Page, George Amos, 21-R Webster avenue, Mason.
 Paige, Harry S., 30 Meacham road, Clerk.
 Park, Arthur N., 20 Arlington street, Clerk.
 Parker, George T., 12 Evergreen avenue, Carpenter.
 Parker, Leander W., 263 Willow avenue, Hackman.
 Parker, William H., 23 Hall avenue, Fireman.
 Parsons, Charles F., 67 Avon street, Clerk.
 Patch, Amos G., 35 Irving street, Produce dealer.
 Patterson, George H., 7 Bowdoin street, Bookkeeper.
 Patterson, William S., 41 Prospect street, Carriage maker.
 Pauly, Rudolph P., 21 Hall street, Upholsterer.
 Peake, Benjamin W., 62 Central street, Salesman.
 Pease, Charles H., 189 Summer street, Mechanical eng.
 Pecheur, Augustus F., 7 Merriam street, Glass maker.
 Peck, Henry A., 2 Bigelow street, Printer.
 Peckham, George W., 99 Belmont street, R. E. agent.
 Peirce, Cyrus H., 75 Marshall street, No occupation.
 Perham, Edwin R., 22 Marshall street, Expressman.
 Perkins, G. Henry, 16 Arthur street, Insurance agent.
 Perkins, Francis C., 81 Pearl street, Broker.
 Perry, Oliver H., 103 College avenue, Real estate agent.
 Perry, William E., 69 Marshall street, Clerk.
 Philbrick, Charles S., 174 Morrison ave., No occupation.

Phillips, Bernard C., 8 Charlestown street, Glass cutter.
 Phillips, George B., 8 Charlestown street, Store keeper.
 Pickthall, Richard E., 182 Central street, Superintendent.
 Pigon, Joseph H., 36 Wallace street, Clerk.
 Pillsbury, Edwin B., 1156 Broadway, Publisher.
 Plaisted, William D., 17 Franklin street, Clerk.
 Plympton, Dorr E., 19 Warren avenue, Inspector.
 Pond, George W., 91 Bay State avenue, Salesman.
 Pope, Frank J., 34 Ames street, Merchant.
 Pope, Tracy C., 168 Summer street, Clerk.
 Porter, Charles H., 34 Franklin street, Real estate agt.
 Porter, Isaac H., 97 College avenue, Leather dealer.
 Porter, John E., 50 Flint street, Draughtsman.
 Potter, George B., 14 Crocker street, Produce salesman.
 Potter, Henry K., 5 Arthur street, Carriage manufacturer.
 Pratt, Charles H., 20 George street, Civil engineer.
 Preble, Frederick A., 55 Tennyson street, Bookkeeper.
 Prescott, Albion M., 52 School street, Teamster.
 Prichard, Charles E., 145 Walnut street, Salesman.
 Prichard, George W., 1 Bean court, Teamster.
 Prior, Charles W., 95 Summer street, Electrician.
 Pritchard, William E., 47 Beacon street, No occupation.
 Puffer, Charles, 14 Dartmouth street, Produce dealer.
 Pugh, Samuel, 269 Summer street, Clerk.
 Pushee, Frank S., 43 Chester street, Salesman.

Q

Quick, Augustus S., 51 Chester street, Clerk.
 Quinn, John A., 19 Rossmore street, Laborer.

R

Ramsdell, Charles H., 53 Tufts street, Real estate agent.
 Ramsdell, Charles H., Jr., 53 Tufts street, Salesman.
 Rand, George T., 336 Highland avenue, Bookbinder.
 Rand, James B., 24 Austin street, Traveling salesman.
 Randlet, Irving N., 11 Jay street, Builder.
 Ray, Charles W., 50 Benton road, Laundry agent.
 Ray, Frank E., 16 Virginia street, Salesman.
 Raymond, Charles F., 20 Crocker street, Collector.
 Raymond, Harry D., 403 Highland avenue, Machinist.
 Raymond, Marcus M., 37 Jaques street, No occupation.
 Raynes, Charles E., 49 Francesca avenue, Clerk.
 Reed, Clarence G., 30 Forest street, Plasterer.
 Reed, Cyrus A., 14 Farragut avenue, Upholsterer.
 Reed, Edward F., 9 Wesley park, Paper hanger.
 Reeves, Frederic H., 15-A Herbert street, Clerk.
 Remick, George W., 16 Cutter street, Mason.
 Remick, William F., 16 Cutter street, Manager.
 Reynolds, James F., 12 Belmont place, Insurance agent.
 Rich, Isaac, 36 Walnut street, Civil engineer.
 Rich, Samuel B., 45 Francesca avenue, Fish dealer.
 Rich, Sewall M., 381 Medford street, Clerk.
 Richards, Daniel, Jr., 14 Granite street, Clerk.
 Richards, Frederick L., 127 Summer street, Engineer.
 Richards, William P., 44 Day street, Architect.
 Richardson, Benjamin H., 102 Curtis street, Clerk.
 Richardson, George A., 20 Wesley street, Clerk.
 Richardson, Homer L., 35 Hudson street, Compositor.
 Richardson, William C., 15 Franklin street, Clerk.
 Rideout, Henry N. W., 7 Howe street, Asst. paymaster.

Ridler, Parker, 37 Ames street, Salesman.
 Riess, Frank, 49 Gorham street, Painter.
 Rinn, Daniel H., 17 Wesley park, Victualler.
 Rivers, Fred S., 31 Charnwood road, Electrician.
 Roberts, Oliver S., 15 Kidder avenue, Manager.
 Robinson, William F. S., 84 Pearl street, Artist.
 Robinson, Wm. H., 265 Broadway, Veterinary surgeon.
 Rogers, Bishop G., 34 Lake street, Bookkeeper.
 Rogers, Frederick R., 3 Wesley park, Manager.
 Rogers, John E., 9 Wigglesworth street, Electrician.
 Ronayne, John, 22½ Tyler street, Laborer.
 Ross, Daniel M., 7 Stickney avenue, Electrician.
 Ross, William M., 116 Hancock street, Grainer.
 Rowe, Daniel, 299 Washington street, Editor.
 Rowell, Elwin E., 72 Broadway, Driver.
 Rufer, John B., 134 Lowell street, Blacksmith.
 Rumney, Isaac E., 10 Benedict street, Machinist.
 Russ, Oliver E., 22 Pinckney street, No occupation.
 Russell, Arthur J., 51 Beacon street, Printer.
 Russell, Eugene L., 1196 Broadway, Provision dealer.
 Ryan, Martin J., 7 Garden court, Bookkeeper.

S

Saben, Edward E., 110 Pearl street, Insurance agent.
 Sampson, Paul L., 22 Joseph street, Printer.
 Sanborn, William A., 472 Broadway, Brick manufacturer.
 Sanborn, William F., 17 Benedict street, News dealer.
 Sargent, Isaac C., 8 Parker street, Insurance agent.
 Savage, Peter J., 10 Dane avenue, Machinist.
 Sawyer, Walter S., 16 Browning road, Real estate agent.
 Scanlon, Edward, 28 Marion street, Provision dealer.
 Schick, Jacob, 18 Gorham street, Cabinetmaker.
 Schillinger, Edgar F., 8-A Montgomery avenue, Clerk.
 Schofield, John E., 28 Willow avenue, Clerk.
 Schrafft, William E., 49 Belmont st., Candy manufacturer.
 Schwab, Ferdinand, 44 Highland road, Superintendent.
 Searl, John, 86 Elm street, Shoe manufacturer.
 Sears, Eben, 25 Dartmouth street, Boiler inspector.
 Sewall, Charles B., 174 Walnut street, Collector.
 Shattuck, Benjamin F., 26 Warren avenue, Potato dealer.
 Shattuck, David A., 23 Brook street, Carpenter.
 Shaw, Charles E., 10 Eastman place, Paper hanger.
 Shaw, Oscar M., 18 Everett avenue, Carpenter.
 Shaw, William H., 92 Central street, Assistant manager.
 Sheeran, John J., 153-R Beacon street, Expressman.
 Sheridan, Arthur H., 22 Perry street, Cashier.
 Sherman, Frank M., 7-A Sargent avenue, Mailing clerk.
 Shorey, William P., 40 Columbus avenue, Clerk.
 Short, Oscar W., 8 Bowdoin street, Box manufacturer.
 Sibley, Alfred M., 42 Oxford street, Mason.
 Sibley, Lincoln H., 18 Greene street, Clerk.
 Simmons, Walter R., 8 Ellsworth street, Clerk.
 Singleton, Charles H., 17 Preston road, Jeweler.
 Skelton, Daniel J., 10 Burnside avenue, Carpenter.
 Skilton, Walter E., 7 Westminster street, Salesman.
 Smith, Albert E., 15 1-2 Putnam street, Cooper.
 Smith, Edgar A., 45 Cedar street, Asst. superintendent.
 Smith, William, 13 Smith avenue, Cabinetmaker.
 Smith, William H., 79 Irving street, Printer.
 Snow, Herbert W., 199 Pearl street, Clerk.

Snow, John C. H., 60 Mt. Vernon st., Carpenter and bldr.
 Snow, Walter H., 42 Derby street, Grocer.
Snow, William A., 17 Francesca avenue, Iron worker.
 Soares, Jose X. P., 39 Lowell street, Barber.
 Solomon, Charles D., 12 Berkeley street, **Clerk.**
 Solomon, William H., 12 Berkeley st., Real estate agent.
 Soule, Horace W., 22 Loring street, Draughtsman.
 Spaulding, Daniel B., 8 Hancock street, No occupation.
 Spaulding, James R., 57 Chandler street, Map publisher.
 Spear, Harry A., 44 Bradley street, Brass finisher.
 Sprague, Walter A., 50 Concord avenue, Telegrapher.
 Sproule, Alexander W., 448 Medford street, R. E. agent.
 Stackpole, John, 242 Broadway, Carpenter.
 Stacy, George W., 14 Albion street, Clerk.
Staples, Mendall G., 42 Prospect street, Teamster.
 Starbird, George M., 102 Pearl street, Carpenter.
 Starratt, John D., 17 Waterhouse street, Motorman.
 Starrett, Charles E., 32 Marshall street, Clerk.
 Steele, Danforth S., 8 Leslie place, Foreman.
 Stevens, Dudley L., 7 Francesca avenue, Salesman.
 Stevens, Elmer A., 103 Liberty avenue, Salesman.
 Stevens, John E., 7 Linden avenue, **Painter.**
 Stevens, Oliver A., 20 Putnam street, Engineer.
 Stillings, Rufus, 23 Arthur street, **Printer.**
 Stimpson, Frank W., 33 Jaques street, Compositor.
 Stockbridge, Alfred E., 88 Pearl street, **Salesman.**
 Stodder, George F., 20 Stickney avenue, Fish dealer.
 Story, Orville L., 23 Tufts street, Scenic artist.
Stover, Alvra H., 13 Virginia street, Foreman.
 Strout, Charles O., 17 Flint street, Mason.
 Stuart, Lewis R., 21 Delaware street, **Dry goods dealer.**
 Studley, Stillman S., 130 Sycamore street, No occupation.
 Sturtevant, Richard H., 31 Walnut street, **Beef dealer.**
 Swain, Gideon W., 18 Bradley street, Provision salesman.
 Swain, Noah R., 17 Hathorn street, Gardener.
 Symonds, Irving F., 14 Greene street, **No occupation.**

T

Tarbox, Horace E., 30 Austin street, **Mason.**
 Tattan, Michael H., 458 Somerville avenue, Grocer.
 Taylor, Alvin, 15 Jaques street, Plumber.
 Taylor, Arthur O., 9 Sycamore street, Bookkeeper.
 Teele, Samuel F., 162 Powder House boulevard, Farmer.
 Temple, Wilbur C., 11 Laurel street, Agent.
 Tewksbury, J. Gardiner, 59 Pearl street, Paper dealer.
 Thiery, William O., 198 Summer street, Salesman.
 Thomas, Joseph M., 23 Stickney ave., **Produce dealer.**
 Thompson, Charles W., 27 Lake street, Clerk.
 Thompson, William H. J., 55 Concord avenue, **Carpenter.**
 Thomson, Emerson, 10 Pinckney street, Clerk.
 Thorne, Richard E., 22 Woodbine street, Teamster.
 Thurgood, Augustus, 42 Hudson st., Wall paper dealer.
 Tibbetts, Harris P., 31 Bradley street, Carpenter.
 Tilden, Elmer E., 80 Porter street, **Bookkeeper.**
 Timson, L. Edgar, 56 Mt. Vernon street, Clerk.
 Titus, Anson M., 10 Raymond avenue, Bookkeeper.
 Titus, Franklin A., 34 Flint street, Real estate dealer.
 Tomfohrde, Richard, 216 Highland ave., Restaurant kpr.
 Tompkins, Charles H., 2 Austin street, Locksmith.
 Toothaker, Charles W., 67 Pearl street, Milk dealer.

Toothaker, Rolan H., 67 Pearl street, Milk dealer.
 Touchet, Victor L., 88 Line street, Teamster.
 Towne, Henry A., 41 Webster street, Moulder.
 Tribble, Hiram, 50 Chandler street, Salesman.
 Tucket, Charles R., 67 Pearl street, Inspector.
 Turner, George E., 27 Tufts street, Teamster.
 Tuttle, Herbert L., 22 Everett avenue, Stock clerk.

U

Upton, Henry J., 45 Florence street, Rubber worker.

V

Valentine, Paul R., 2 Bolton street, Clerk.
 Van Buskirk, Charles, 20 Prescott street, Wheelwright.
 Vaughn, Hartley E., 7 Auburn avenue, Teamster.
 Vincent, Francis X., 85 Prospect street, Printer.
 Vivian, James H., 210 Medford street, Shipper.
 Vreeland, Edward B., 121 Central st., Hay & grain dlr.

W

Waite, Ernest L., 261 Willow avenue, Reporter.
 Walker, Edwin P., 11 Bigelow street, Superintendent.
 Walker, George, 26 Wallace street, Salesman.
 Walker, Granville A., 9 Loring street, Painter.
 Walker, J. Edwin, 64 Temple street, Engineer.
 Walker, Thomas G., 5 Dell street, Foreman.
 Wanless, David, 21 Grove street, Salesman.
 Ward, Benjamin A., 22 Milton street, Tailor.
 Ware, Francis A., 54 Dartmouth street, Insurance agent.
 Warner, Charles S., 19 Chapel street, No occupation.
 Waters, Harry G., 101 Orchard street, Clerk.
 Waters, Morgan, 11 Sanborn avenue, Insurance agent.
 Watson, Frank L., 21 Aldersey street, Paint dealer.
 Watson, Thomas J., 22 Chauncey avenue, Compositor.
 Watters, James, 41 Mystic avenue, Musician.
 Watts, George A., 18 Maple avenue, Mechanic.
 Waugh, J. Robert, 36-A Linden ave., Carpenter.
 Webber, Edward O., 84-A Broadway, Janitor.
 Webber, Herbert L., 70 Columbus avenue, Painter.
 Webber, Orrin H., 2 Wellington avenue, Carpenter.
 Welch, James T., 303 Highland avenue, Mason.
 Wemyss, George D., 29 Ames street, Woodworker.
 Wentworth, Frank H., 61 Dartmouth street, Salesman.
 Wentworth, Ransom D., 22 Flint street, Stable keeper.
 West, Thomas, 22 Rogers avenue, Clerk.
 Weston, Howard H., 50 Jaques street, Restaurant keeper.
 Wheeler, Charles J., 32 Mead street, Painter.
 Wheeler, Homer C., 16 Kidder avenue, Receiving clerk.
 White, Christopher J., 38 Concord avenue, Laborer.
 White, Francis, 8 Park street, Clerk.
 White, Frank H., 14 Montgomery avenue, Map mounter.
 White, Henry F., 18 Grant street, Foreman.
 White, Joseph A., 150 Hudson street, Carpenter.
 White, J. Harvey, 411 Broadway, Agent.
 White, Maurice J., 52 Linwood street, Clerk.
 Whiton, Erastus, 12 Aldrich street, Clerk.
 Whiton, George F., 20 Otis street, Leather dealer.
 Whittemore, Arthur W., 153 Elm street, Photographer.

Wholey, James, 25 Oak street, Laborer.
Wiggin, Walter S., 74 Walnut street, Traveling salesman.
Wilde, George, 104 Broadway, Clerk.
Wilde, Waldo M., 15 Sartwell avenue, Bookkeeper.
Wiley, Henry C., 75 Thurston street, Clerk.
Wilkins, Samuel H., 19 Dover street, Beef dealer.
Willey, Clarence H., 26 Dartmouth st., Hay & grain dlr.
Williams, Charles C., 10 Oakland avenue, Manager.
Williams, Charles H., 45 Union square, Carpenter.
Williams, Ernest P., 1 Hillside avenue, Clerk.
Williams, James A., 212-A Somerville avenue, Carpenter.
Williams, Paulinus F., 1 Hillside avenue, Lumber dealer.
Williston, Belvin T., 3 Monmouth street, Mech. engineer.
Willoughby, George T., 111 Central street, Builder.
Wilson, John R., 60 Albion street, Carpenter.
Wilson, Jonas W., 121 Prospect street, Teamster.
Winslow, Isaac S., 38 Spring street, No occupation.
Winsor, Martin C., 65 Cross street, Iron salesman.
Winters, John M., 275 Washington street, Teamster.
Winters, William H., 275 Washington street, Fireman.
Wiswell, Edward G., 22 Webster street, Salesman.
Wood, Charles, 25 Columbus avenue, Locksmith.
Wood, James, 40 Tower street, Locksmith.
Woods, George H., 14-A Austin street, Agent.
Woodward, Herbert W., 13 School street, Clerk.
Wright, Walter H., 54 Vinal avenue, Manufacturer.
Wyatt, Charles B., 10 Linden avenue, Machinist.
Wyman, Charles B., 67 Thurston st., Restaurant keeper.

Y

Yelland, Henry, 5 Munroe street, Slipper.
York, Ernest A., 10 Thorndike street, Baker.
Young, David, 372 Highland avenue, Blacksmith.
Young, Willis A., 49 Cedar street, Carpenter.
Younker, Richard E., 9 Rossmore street, Wheelwright.

CITY GOVERNMENT AND OFFICERS FOR 1903.

Mayor.

EDWARD GLINES,
129 Highland avenue.

Board of Aldermen.

President — JOSEPH S. PIKE.

Vice-President — DANIEL M. FRYE.

WARD ONE.

CHARLES S. GILMAN, Alderman-at-large	. . . . .	11 Hathorn street.
THOMAS T. M. SARGENT	. . . . .	67 Myrtle street.
JOHN J. McCARTY	. . . . .	13 Knowlton street.

WARD TWO.

HORACE A. BELCHER, Alderman-at-large	. . . . .	12 Webster avenue.
WILLIAM M. KELLEY	. . . . .	17 Merriam street.
DENNIS C. MAHONEY	. . . . .	16 Parker street.

WARD THREE.

JOSEPH S. PIKE, Alderman-at-large	. . . . .	53 Preston road.
WILLIAM F. BARKER	. . . . .	5 Putnam street.
CHARLES H. WOOD	. . . . .	7 Bigelow street.

WARD FOUR.

EDWIN N. SIMONDS, Alderman-at-large	. . . . .	47 Jaques street.
HERBERT P. NICKERSON	. . . . .	9 Edmands street.
HERBERT I. LAIGHTON	. . . . .	72 Flint street.

WARD FIVE.

FRANK A. NOYES, Alderman-at-large	. . . . .	95 Highland avenue.
GEORGE W. HATCH	. . . . .	69 Partridge avenue.
JOHN J. HIGGINS	. . . . .	64 Sycamore street.

WARD SIX.

RALPH A. LANDERS, Alderman-at-large	. . . . .	20 Cambria street.
DANIEL M. FRYE	. . . . .	232 Highland avenue.
JOHN F. THOMPSON	. . . . .	599½ Somerville avenue.

WARD SEVEN.

WARREN C. DAGGETT, Alderman-at-large	. . . . .	49 College avenue.
FRENCH O. J. TARBOX	. . . . .	43 Victoria street.
WALTER A. DOW	. . . . .	15 Ware street.

City Clerk — GEORGE I. VINCENT.

Assistant City Clerk — FREDERIC W. COOK.

Regular meetings, second and fourth Thursday evenings of each month, at 8 o'clock.

Standing Committees of the Board of Aldermen.

ACCOUNTS. — Aldermen Kelley, Thompson and Higgins.

BONDS. — Aldermen Landers, Sargent and Dow.

CITY ENGINEERING. — Aldermen Sargent, Hatch and Simonds.

CLAIMS. — The President, Aldermen Frye and Higgins.

ELECTIONS. — Aldermen Daggett, Loughton and Thompson.

ELECTRIC LINES AND LIGHTS. — Aldermen Hatch, Nickerson, McCarty, Thompson and Dow.

FINANCE. — The President, Aldermen Daggett, Noyes, Simonds, Landers, Belcher and Gilman.

FIRE DEPARTMENT. — Aldermen Nickerson, Sargent, Belcher, Dow and Higgins.

GRADE CROSSINGS. — Aldermen Belcher, Wood, Daggett, McCarty and Thompson.

HIGHWAYS. — Aldermen Simonds, Frye, Hatch, Gilman, Mahoney, Barker and Daggett.

LEGISLATIVE MATTERS. — The President, Aldermen Tarbox and Frye.

LICENSES. — Aldermen Wood, Noyes and Kelley.

ORDINANCES AND RULES. — Aldermen Barker, Nickerson and Higgins.

POLICE. — The President, Aldermen Noyes and Sargent.

PRINTING. — Aldermen Kelley, Tarbox and Loughton.

PUBLIC GROUNDS. — Aldermen Simonds, Wood, Tarbox, Landers and Kelley.

PUBLIC PROPERTY. — Aldermen Noyes, Gilman, Barker, Belcher and Loughton.

SEWERS. — Aldermen Tarbox, Mahoney and Loughton.

SPECIAL BUILDING PERMITS. — Aldermen Daggett, McCarty and Hatch.

STATE AID AND SOLDIERS' RELIEF. — Aldermen Frye, Nickerson and Mahoney.

WATER. — Aldermen Mahoney, Barker and Landers.

School Committee.

Chairman. — S. NEWTON CUTLER.

Vice-Chairman. — GEORGE A. MILES.

(Term, two years.)

WARD ONE.

S. NEWTON CUTLER (elected 1901), 28 Flint street.

GEORGE S. POOLE (elected 1902), 46 Mt. Vernon street.

WARD TWO.

JOHN H. O'NEIL (elected 1901), 44 Oak street.

EDWARD J. FLYNN (elected 1902), 273 Washington street.

WARD THREE.

DANA W. BENNETT (elected 1902), 41 Putnam street.

GEORGE E. WHITAKER (elected 1901), 75 Walnut street.

WARD FOUR.

GEORGE W. W. WHITING (elected 1901), 282 Broadway.

WILLIAM P. JONES (elected 1902), 13-A Maple avenue.

WARD FIVE.

QUINCY E. DICKERMAN (elected 1901), 85 Central street.
J. WALTER SANBORN (elected 1902), 183 Central street.

WARD SIX.

FREDERICK A. P. FISKE (elected 1901), 44 Cherry street.
CHARLES H. HOOD (elected 1902), 2 Benton road.

WARD SEVEN.

GEORGE A. MILES (elected 1901), 249 Elm street.
HENRIETTA B. H. ATTWOOD (elected 1902), 18 Herbert street.

Superintendent and Secretary. — GORDON A. SOUTHWORTH.

Office, City Hall Annex.

Hours: 8 A. M. to 12 M., and 1.30 to 5 P. M.; Saturdays, 8 to 10 A. M.

Regular meetings, last Monday evening of each month, except July and August, when none are held, and December, when meeting is on last Friday.

Assessors.

(Term, three years.)

ALBERT B. FALES, Chairman (term expires 1904).

BENJAMIN F. THOMPSON (term expires 1905).

NATHAN H. REED (term expires 1906).

HARRY A. TRUE (term expires 1906).

JESSE J. UNDERHILL (term expires 1905).

ASSISTANT ASSESSORS.

(Term, one year.)

FRED B. CLAPP.

WILLIAM HENRY SMITH.

SEWALL M. RICH.

JAMES WILSON.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Board of Health.

(Term, two members, two years; one member, one year.)

ALLEN F. CARPENTER, Chairman (term expires 1904).

ALBERT C. ALDRICH, M. D. (term expires 1904).

EDMUND S. SPARROW (term expires 1905).

Clerk. — WILLIAM P. MITCHELL.

Agent. — CALEB A. PAGE.

Superintendent Collection of Ashes and Offal. — EDGAR T. MAYHEW.

Inspector of Animals and Provisions. — CHARLES M. BERRY.

Inspector of Milk and Vinegar. — JULIUS E. RICHARDSON.

Bacteriologist. — FRANK L. MORSE, M. D.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Overseers of the Poor.

Office, City Hall Annex.

(Term, three years.)

EDWARD B. WEST, Chairman (term expires 1906).

ALBERT W. EDMANDS (term expires 1905).

HERBERT E. MERRILL (term expires 1904).

Agent. — CHARLES C. FOLSOM.*Secretary.* — CORA F. LEWIS.

Office open : 8 A. M. to 4 P. M. ; Saturdays, 8 A. M. to 12 M.

Registrars of Voters.

(Term, three years.)

CHARLES P. LINCOLN, Chairman (term expires 1904).

CHARLES E. PARKS (term expires 1905).

LEVI F. S. DAVIS (term expires 1906).

GEORGE I. VINCENT, City Clerk (term expires 1905).

Public Library Trustees.

(Term, three years.)

CHARLES A. WEST, Chairman (term expires 1904).

JOHN B. VIALI (term expires 1905).

EDWARD C. BOOTH (term expires 1904).

GEORGE W. PERKINS (term expires 1904).

J. FRANK WELLINGTON (term expires 1905).

IRVING G. HALL (term expires 1906).

HOWARD D. MOORE (term expires 1906).

FREDERICK W. PARKER (term expires 1906).

CHARLES S. SOULE (term expires 1905).

Librarian and Secretary. — SAM WALTER FOSS.

Library open 9 A. M. to 9 P. M., and the reading room Sundays 2 to 6 P. M.

City Clerk.

GEORGE I. VINCENT.

Assistant City Clerk. — FREDERIC W. COOK.

Office open : 8 A. M. to 4 P. M. ; Saturdays, 8 A. M. to 12 M.

City Treasurer and Collector of Taxes.

JAMES F. BEARD.

Office open : 8 A. M. to 2 P. M. ; Saturdays, 8 A. M. to 12 M.

City Messenger.

JAEHRUS MANN.

Mayor's Secretary.

FRED E. WARREN.

City Solicitor.

FRANK W. KAAH,
50 State street, Boston.

City Auditor.

CHARLES S. ROBERTSON.

City Engineer.

ERNEST W. BAILEY.
Office open : 8 A. M. to 4 P. M. ; Saturdays, 8 A. M. to 12 M.

Clerk of Committees and Departments.

WILLIAM P. MITCHELL.
Office open : 8 A. M. to 4 P. M. ; Saturdays, 8 A. M. to 12 M.

Commissioner of Streets.

JOHN P. PRICHARD.
Office hour : 9 A. M.

Commissioner of Public Buildings and Inspector of Buildings.

WALTER T. LITTLEFIELD.
Office open : 8 A. M. to 4 P. M., Saturdays, 8 A. M. to 12 M.

Inspector of Plumbing.

DUNCAN C. GREENE.
Office hour : 8 to 9 A. M.

Commissioner of Electric Lines and Lights.

EDWARD BACKUS.
Office hour : 8.30 to 9.30 A. M.

Water Commissioner.

FRANK E. MERRILL.
Office open : 8 A. M. to 4 P. M. ; Saturdays, 8 A. M. to 12 M.

Chief of Police.

MELVILLE C. PARKHURST.
Office, Police Building, Bow street.

Chief Engineer of the Fire Department.

JAMES R. HOPKINS.
Office, Central Fire Station, 261 Medford street.

City Physician.

ALVAH B. DEARBORN, M. D.,
34 Bow street.

Inspector of Milk and Vinegar.

JULIUS E. RICHARDSON,
310 Broadway.

Inspector of Animals and Provisions.

CHARLES M. BERRY,
60 Prescott street.

Inspector of Petroleum.

JAMES R. HOPKINS.
Office, Central Fire Station, 261 Medford street.

Sealer of Weights and Measures.

JOHN H. DUSSEAUT,
Office, City Hall Annex.

Office open: November 1 to March 31, inclusive, 9 A. M. to 12 M.; April 1 to October 31, inclusive, 9 A. M. to 12 M., Fridays and Saturdays only.

Fence Viewers.

LAMBERT M. MAYNARD,
90 Highland avenue.
CHARLES M. BERRY,
60 Prescott street.

Burial Agent.

UNDER REVISED LAWS, CHAPTER 79, SECTION 20.
JOHN H. DUSSEAUT,
42 Sargent avenue.

Constables.

ROBERT F. ATWOOD.
GEORGE H. CARLETON.
EUGENE A. CARTER.
CHARLES L. ELLIS.
CHARLES C. FOLSOM.
PATRICK J. GARVIN.
WILLIAM D. HAYDEN.
FRANKLIN W. HOPKINS.
DENNIS KELLEY.

JOHN J. KENNEY.
JAIRUS MANN.
CHARLES B. PALMER.
MELVILLE C. PARKHURST.
ROBERT R. PERRY.
CLIFTON P. SANBORN.
ALBION L. STAPLES.
MALCOLM E. STURTEVANT.
CHARLES E. WOODMAN.

Measurers of Wood and Bark.

WILLIAM B. HOLMES,
317 Broadway.
OSCAR A. DYKENS,
34 Chestnut street.

Measurers of Grain.

JOSEPH W. BAILEY.

JOHN CRAIG.

Public Weigher in Charge of City Scales, Union Square.

FULTON O'BRIEN.

3 Union square.

Weighers of Coal.

EDGAR H. BARKER.

GEORGE W. BARNABY.

CHARLES P. BRANN.

JEFFERSON D. CAMERON.

PATRICK COFFEY.

HARRY A. CRAWFORD.

HOWARD H. DAVENPORT.

FRED C. DINSMORE.

CHARLES F. DOHERTY.

AMHERST F. DURKEE.

OSCAR A. DYKENS.

ALBERT J. FIELDING.

JOEL J. FISHER.

CHARLES W. FURLONG.

CHARLES T. GARLAND.

WILLIAM E. GERRISH.

CHARLES W. GOODWIN.

JOHN H. GRAY.

GEORGE F. GROGAN

STEPHEN M. G. HALE.

DANIEL F. HALEY.

ERNEST R. HUBBARD.

GRACE ABBIE HURD.

DANIEL W. HURLEY.

CHARLOTTE L. HUTCHINSON.

FRED M. HUTCHINSON.

GEORGE P. JACKMAN.

EDWARD LOWMAN.

JOHN MACDONALD.

JOHN J. MCMAHON.

PHILIP C. MCMAHON.

JOHN A. MARSH.

JOHN J. MASTERS.

HENRY T. MCLEAN,

RODERICK C. McNABB.

GEORGE H. MOORE.

STEPHEN M. MORAN.

JAMES P. O'NEILL.

JOHN PEVERADA.

CHARLES W. PORTER.

GEORGE H. REED.

TIMOTHY T. REGAN.

LOTTIE L. RICE.

OSCAR A. RITZMAN.

CHARLES E. ROCKWELL.

EDWIN R. SHORT.

ABRAM SIMON.

WILLIAM C. STICKLE.

FRANK A. TEELE.

CHARLES H. TUCKER.

JOHN P. TULLY.

ALFRED A. WALDRON.

ELIZABETH M. WALLACE.

THOMAS WALSH.

CHARLES H. WARD.

ALDEN P. WILLEY.

Weighers of Beef.

JESSE W. CHASE.

GEORGE M. CHISHOLM.

JOHN CONNORS.

FREDERICK A. GEILING.

WARREN L. HAYWARD.

JOHN J. HARRIGAN.

REUBEN W. MEADE.

JAMES H. McDONOUGH.

JOHN T. QUINN.

ROBERT E. SMITH.

EDWARD M. WHEELER.

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